ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5904		paper;fillers;coff	01-Apr-91			The effect of fillers on paper friction properties	TAPPI JOURNAL, April 1991, Vol. 74(4)	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4819&DID=519513	filler types included hydrous kaolin, calcined kaolin, talc, and synthetic precipitated silica and silicate (PSS) pigments	magazine	TAPPI						
6017		drive;design;application;shortcourse	14-Mar-95	286		Paper Machine Drives Shortcourse Notes	TAPPI Shortcourse	10			Book	TAPPI		PaperMachineDrivesTappi	BookScan		03-Mar-10	
6086		roller;bearing;temperature;lubrication;design	01-May-11	4		Roller Bearing, Life in High Temperatures	Pulp and Paper International, pp 35-39, May 2011	5	http://www.ppimagazine.com/ppiissue/201105/?sub_id=MH8jZvdwMlzY		magazine	Pulp and Paper International	NSK Engineering					
14173		guide;edge;sensor	01-Jul-16	6	Seshadri, Aravind	Fiber-optic web-position sensing: edge, line/contrast position measurement via light scattering	Converting Quarterly, qtr 3, 2016	4			magazine	AIMCAL	Roll-2-Roll Technologis, Inc					
14134		guide;edge;sensor	09-Sep-16	1	Seshadri, Aravind	Recent Advances in Sensing and Control of Web Guides	AIMCAL Fall US Web Conf, Memphis, Sept 9-12, 2016	3			conference	AIMCAL	Roll-2-Roll Technologis, Inc					
9821		adhesion	10-Jun-12		Abbott, Steven	Adventures in Adhesion: Spiderman, Geckos, Bio-robots, Laptop Cables and Beyond	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012	5			conference	AIMCAL	TCNF					
9792		coat; slot	10-Jun-12		Abbott, Steven	Slot Coating at the Limits: Thin and Dual Layer Coatings	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	TCNF					
9922		winding;roll;dimension;length;diamter	01-Feb-13	1	Abbott, Steven	What extra refinements make Wound Roll Sizer more helpful?	Converting Quarterly, qtr 1, 2013	4			magazine	AIMCAL	self					
9933		wrinkle;model;model;app	01-May-13	1	Abbott, Steven	How can I predict wrinkles in my web	Converting Quarterly, qtr 2, 2013	4			magazine	AIMCAL	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
10001		roller;bend;deflection;calculation;model;standard	01-Aug-13	1	Abbott, Steven	How much will my roller bend under its load	Converting Quarterly, qtr 3, 2013	4			magazine	AIMCAL	self					
10008		surface;roughness;measure	01-Dec-13	1	Abbott, Steven	What is the right roughness measure for my process or application	Converting Quarterly, qtr 4, 2013	4			magazine	AIMCAL	self					
10018		curl;model;calculate	01-Jan-14	1	Abbott, Steven	Why does laminate curling change at different atmospheric temperature	Converting Quarterly, qtr 1, 2014	4			magazine	AIMCAL	self					
10030		moisture;temperature;roll;model;diffusion	01-May-14	1	Abbott, Steven	What is the temperature or humidity in my roll over time?	Converting Quarterly, qtr 2, 2014	4			magazine	AIMCAL	self					
10069		heat_seal;model	08-Jun-14		Abbott, Steven	The App Approach to the Heat-Seal Process	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014	5			conference	AIMCAL	self					
10049		web-handling;computer;model;app	08-Jun-14		Abbott, Steven	Raising our Technical Game with Web-Handling Apps	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014	5			conference	AIMCAL	self					
14086		rubber;roller;nip;width;hardness	01-Apr-15	1	Abbott, Steven	What's happening in your rubber roller nip?	Converting Quarterly, qtr 2, 2015	4			magazine	AIMCAL	self					
14094		winder;productivity;calculator;model	01-Jul-15	1	Abbott, Steven	How productive is my winder?	Converting Quarterly, qtr 3 2014	4			conference	AIMCAL	self					
10072		product_design;barrier;model	01-Sep-15		Abbott, Steven	How do I calculate barrier properties	Converting Quarterly, qtr 3 2014	5			conference	AIMCAL	self					
14092		roller;rubber;nip;hardness	06-Sep-15		Abbott, Steven	What's happening in your rubber roll nips	Converting Quarterly, qtr 3 2014	5			conference	AIMCAL	self					
14101		roller;slippage;model;calculation;traction;air_entrai	01-Oct-15		Abbott, Steven	Why does my web slip on my roller (and which roller is it)	Converting Quarterly, qtr 4 2015	5			magazine	AIMCAL	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2	o	sheet	24-Oct-93	10	Abderholden, Mark E.	A Modern Paper Supply System is the Key to a More Efficient Sheeting Operation	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 187-196, Oct 24-27 1993	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5578&DID=523490	it is possible to improve productivity, reduce waste, and produce better quality sheets	conference	TAPPI						
3	o	sheet	21-Sep-97	4	Abderholden, Mark E.	Dual-Rotary Knife Retrofit Brings Older Sheeters Back to Life...	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 165-168, September 21-24, 1997	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5326&DID=511813	A dual-rotary direct drive knife retrofit is a low-cost alternative to a new sheeting system	conference	TAPPI						
4		core;cut	01-Mar-97	3	Acevedo, Jennifer	Outsourcing Core Cutting is a Boon to Tape Converter	Paper Film Foil Converter, vol 71, no 3, pp 39-41, March 1997				magazine	Paper Film Foil Converter						
5727		wind;control;nip;density	01-Oct-84	4	Adams, Richard J.	The evolution of winder control	Tappi J., vol 67, no 10, pp 72-75, Oct 1984	2			magazine	TAPPI	Beloit	WindControlEvolveAdams	WindGeneralScan	doc and pdf	24-Oct-09	
7		flutter;reel;wind;web_handling	01-Jan-91		Adams, Richard J.	The Influence of Rolls and Reels on Flutter	TAPPI Sheet Flutter and Windage Problems Seminar, Nashville, 1991					TAPPI	Beloit					
5728		web_handling;traction;spreading;air_entrainment	01-Nov-92	8	Adams, Richard J.	The Influence of Rolls and Reels on Flutter and Windage	Tappi J., vol 75, no 11, pp 215-222, Nov 1992	2	http://www.tappi.org/s_tappi/secpublications.asp?CID=4874&DID=519711	desired or undesired stress profiles through the mechanisms of web-roll interaction, spreading, and reel effects	magazine	TAPPI	Beloit	FlutterWindageAdams	WindGeneralScan	doc and pdf	24-Oct-09	
5598		runnability;paper;web_break;flaw;contaminant;measurement;tension;winder	01-Jan-88	6	Adams, Richard J. and Westlund, Karl B.	Off-line Testing for Newsprint Runnability	International Printing & Graphic Atts Conf. Proc, pp 131, 1988	4			magazine	Beloit	Beloit	TestNewsprintRunnability	Runnability Scan	doc and pdf	30-Dec-09	
10		stress;tes6t	01-Jun-81	4	Agbezuge, Lawrence K.	Internal Stress in Xerographic Papers	Polymer Engineering and Science, pp 534-537, Jun 1981											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
11		smooth;friction;textile	01-Feb-92		Ajayi, J.G.	Effects of Fabric Structure on Frictional Properties	Textile Research J., Feb 1992				magazine	Textile Research J						
12		smooth;friction;textile	01-Jan-92		Ajayi, J.O.	Fabric Smoothness, Friction and Handle	Textile Research J., Jan 1991				magazine	Textile Research J						
13		tension;model	01-Jul-90		Akatsuka, Masakzu	Models of Longitudinal Web Behavior in the Handling Process	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						
14		tension;profile;measure	03-May-95	4	Akerlund, K., and Happonen, E., and Mustonen, H.	Web Tension Profile Measurement, a tool for runnability control	Finish Society of Automation, Helsinki, Finland May 3-5, 1995.											
15		coat;blade	23-May-82		Akesson, R.	Coating Parameters in a KMW Fountain Blade Coater, Pilot Study and Mill Experience	TAPPI Coating Conf. Proc., May 23-26 1982					TAPPI						
17		core shaft	01-Apr-77	3	Albee, Stephen H.	The abcs of Expandable Air Shafts	Graphic Arts Monthly, vol 49 no 4, pp 52 54 56				magazine							
18		core shaft;chuck	01-Jun-77		Albee, Stephen H.	Pneumatically Operated Shafts and Chucks for Rewinding and Unwinding	Southern Pulp & Paper Mfr, vol 40, no 6, pp 39-41.				magazine							
19		core shaft;core;chuck;design;winder	01-Jul-77	3	Albee, Stephen H.	Shafts and Chucks for Rewinding and Unwinding Rolls	Pkg Printing Diecutting, vol 23, no 7, pp 8-9											
20		core shaft	15-Nov-77		Albee, Stephen H.	Factors to consider in selecting proper air shaft for differing	Pulp & Paper Buyers Guide, vol 51, no 13, pp 36-38				magazine							
21		core shaft	01-May-78	4	Albee, Stephen H.	Follow This Guide in Your Selection of Air Shafts	Canadian Pulp & Paper Ind., vol 31, no 6, pp 75 77-78				magazine	Canadian Pulp & Paper Ind						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
22		safety;osha	01-Nov-97	7	Alexander, Gordon	Osha's Voluntary Protection Program	Tappi J., vol 80, no 11, pp 58-64, November 1997	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5317&DID=509808	Attaining the VPP MERIT or STAR status is a considerable task, but the ensuing benefits more than outweigh the effort of the process	magazine	TAPPI						
23		core;hygroscopic;moisture;roll structure	20-Jun-80	3	Algemeine,	Drying of Wound Tubes	Algemeine Papier-Rundschau, no 24/25, 758-760											
5556		roller;alignment		3	Allen, George Jr.	The Bottom Line on Press Alignment	Package Printing & Converting Magazine	2			magazine	Package Printing & Converting	OASIS	BottomLine AlignOasis	RollerScan	doc and pdf	07-Dec-09	
5558		roller;alignment	01-Jan-94	5	Allen, George Jr.	Optical Tooling for Paper Machines	TAPPI Engineering Conference, pp 595-599, 1994	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5505&DID=522632	The use of optical tooling is the most efficient way of achieving proper alignment	conference	TAPPI	OASIS	OpticalToolingPaperMachine	RollerScan	doc and pdf	18-Dec-09	
5557		roller;alignment	01-Nov-95	3	Allen, George Jr.	Across-the-machine baselines as the alignment reference for freestanding paper machines	Tappi J., vol 78, no 11, pp 224-225, November 1995	3	http://www.tappi.org/s_tappi/secpublications.asp?CID=4849&DID=517803	An offset baseline is an alignment reference parallel to the machine centerline and is typically identified by a series of monuments placed in the operating floor. These monuments serve as datums	magazine	TAPPI	OASIS	MachineBaselineAlignment	RollerScan	doc and pdf	07-Dec-09	
26	o	wind;roll_structure;density;measure	06-Oct-91	10	Allen, W.F.	Practical Measurements on a Center-Surface Winder	TAPPI Finishing and Converting Conf. Proc., Houston, pp 153-162, Oct 6-10 1991				conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
27		roller;dry;strength;safety	01-Jul-92		Allevato, C. and Williams, J.D.	Acoustic Emission Evaluation of Yankee Dryer Shell Materials	Tappi J., vol 75, no 7, Jul 1992	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=9037&DID=520794	Learn from this intensive feasibility study about using acoustic emission as an inspection tool for evaluating the condition of any Yankee dryer. This publication includes data collected, conclusions, and recommendations for use. 1992. 360 pp	magazine	TAPPI						
28	o	static_electricity	01-Jan-95	5	Alonso, Marie Ranoia	The Neutral Zone	Package, Printing & Converting, pp 20-24, January 1995				magazine	Package Printing & Converting						
29		web_guide	01-Sep-95	2	Alonso, Marie Ranoia	Web Guide Smarts	Package, Printing & Converting, pp 44-48, September 1995				magazine	Package Printing & Converting						
30		wind;slit	01-Sep-95	3	Alonso, Marie Ranoia	On Edge	Package, Printing & Converting, pp 50-54, September 1995				magazine	Package Printing & Converting						
31		moisture;permeability;measure	01-Apr-96	2	Alonso, Marie Ranoia	Testing the Waters	Package, Printing & Converting, pp 60-61, April 1996				magazine	Package Printing & Converting						
16					Al-Sayed, A. A. H.	Critical Analysis of Portable Web-Tension Measuring Equipment	Loughborough University of Technology, England, Ph.D. Thesis											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5813		wind;stress;model	01-Apr-68	3	Altmann, Henize C	Formulas for Computing the Stresses in Center-Wound Rolls	Tappi J., vol 51, no 4, pp 176-179 Apr 1968	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4822&DID=519578	Roll-structure theory is used to calculate internal pressures and tensions in a roll or reel wound at constant tension. The calculation is able to theoretically predict the interlayer pressure	magazine	TAPPI	Kodak	StressCenterWoundAltmann	WindModel Scan	doc and pdf	27-Nov-09	
9808		vacuum_dep	10-Jun-12		Amberg-Schwab, Dr Sabine	Development and Upscaling of Nanoscale Transparent Barrier Lacquers Based on Hybrid Polymers	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Fraunhoffer Institute					
5538		moisture;diffusion;paper;roll;model;measurement;wrapping	01-Jan-01	9	Amiri, Reza and Hamel, Jean and McDonald, David	Moisture Distribution in Paper Rolls: The Effect of Wrapping Materials	J Pulp and Paper Science, 2001?	4			magazine	J Pulp and Paper Science	PAPRICAN	MoistureDistributionRollAmiri	MoistureScan	doc and pdf	16-Sep-09	
33		guide	01-Sep-51	4	Amos, Stephen E.	Web Guiding Control...provides accuracy at high speeds	Machine Design, pp 159-162, Sep 1951				magazine							
34		roll structure;tension;torque;centerwind	01-Sep-70		Amos, Stephen E.	Winding Webs: A Case of Constant Tension Versus Constant Torque	Paper, Film & Foil Converter, vol 44, no 9, pp 56-58 etc, Sept 1970				magazine	Paper Film Foil Converter						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
35	o	slit;waterjet	07-Oct-90	16	Amundsen, B.L. and Kleissler, B.	Ultra High Pressure Waterjets - Are They Right for You?	TAPPI Finishing and Converting Conf. Proc., Lake Buena Vista FL, pp 91-104, Oct 7-10 1990	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5730&DID=515349	Since 1975, ultrahigh pressure waterjets have been used to slit, edgetrim, and tailcut a variety of materials in the paper industry. These materials include: tissue, liner board, corrugated board, fine paper, and roofing felts.	conference	TAPPI						
36		basis_weight;control;expert_system	31-Jan-89		Amyot, J.R. and Nuyan, S.	A Troubleshooting Expert System Consultant for Cross Paper Machine Dry Weight Control Systems	CPPA Conf. Proc., Montreal, Jan 31 1989				conference	CPPA						
37		laser;measurement;process;control;quality control;defect;coatin	01-Jun-79	3	Andersen, Kenneth L.	An On-Line Inspection Device: Web Defect Detection with Lasers	Tappi J., vol 62, no 6, pp 69-71, Jun 1979				magazine	TAPPI						
5676		tension_control;methodology	01-May-93	6	Anderson, Glen	Fundamentals of Fuzzy Logic: Part III	Sensors, pp 38-42, May 1993	2			magazine	Sensors	Omron Electronics	FundamentalFuzzyLogic3	TensionScan	doc and pdf	23-Dec-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3693		static	01-May-09	3	Anderson, Michael	Electrostatic Charging Applications	Converting Magazine, vol 27, no 5, pp 30-32, May 2009	4	http://www.convertingmagazine.com/article/308695-Electrostatic_charging_applications.php	First, a charge applicator, usually a charging bar connected to a charging generator, is used to produce ions of one polarity, most often negative ions. Second, a ground reference, or counter electrode, must be present	magazine	Converting Magazine	Ion					
5599		runnability;paper;web_break;fracture;flaw	01-Feb-66	9	Andersson, Olle and Falk, Olle	Spontaneous Crack Formation in Paper	Svensk Papperstidning, vol 69, no 4, pp 28, Feb 1966	3			magazine	Svensk Papperstidning	STFL	CrackForm Paper	Runnability Scan	doc and pdf	30-Dec-09	
40	o	roll_handle;loading;wind	16-Mar-87	4	Andreasson, B. and Dollander, R.	An Automatic Flying Paster: A New Concept for an Integrated Reel Handling and Loading System for Double-Width Printing Presses	Winding Technology Conf. Proc., Swedish Newsprint Research Center (TFL), Stockholm, Mar 16-171986				conference	STFL						
41		wind;reel;density	01-Jan-92		Andrew, D.F.	Reel Density Control	Converting Technology International, 1992											
3073	o	slitting;model	01-Jun-03	8	Andruet, R. and Cook, R. and Qualls, William	Issues in Modeling Slitting of Magnetic Tapes	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
42	o	core;steel	01-Oct-89	4	Angland, D.J.	Steel on Today's High Speed Winders	TAPPI Finishing and Converting Conf. Proc., Kansas City MO, pp 141-144, Oct 1-5 1989				conference	TAPPI						
9928		trim_handling; slitter;pneumatic	01-Jan-81	4	Anon	Trim Handling		3		trim handling recommendations beloit winder engineering	standards	Beloit Corp	Beloit Corp	TrimBeloitRecommend1	WindGeneralScan	pdf	13-Apr-13	
6035		roller;wind;nip; hertzian;contact;stress;formulae	14-Dec-09	9	anon	Elastic Contact Stress Formulae	staff.ncl.ac.uk/s.j.bull/ecstr.html	4			webpage			RollerNipContactStressFormulae	RollerScan	pdf		
6130		laminate;peel; bond;test	01-Sep-11		Anon	Standard Practice for determining the adhesion of prints and laminating films	ASTM F 2226-03	4			standard	ASTM	ASTM					
6132		laminate;peel; bond;test	01-Sep-11		Anon	Standard test method for seal strength of flexible barrier materials	ASTM F 88-05	4			standard	ASTM	ASTM					
9884		roll;storage;automation	01-Jan-12		anon	Storage Problems Solved	C2 Coating and Converting	2			magazine	C2						
9885		roll;handling;automation	01-Jan-12		anon	Handle with Care	C2 Coating and Converting	2			magazine	C2						
10080		roll_handling	01-Sep-14	2	anon	Moving shafts	C2 International, 2014	2			magazine	C2						
10079		roll_handling	01-Sep-14	1	anon	Roll handling made easy	C2 International, 2014	2			magazine	C2						
5867		std;safety;			Anon.	ANSI/PMMI B1551 - Risk Assessment Basics - An overview fo Packaging Machinery	ANSI/PMMI B1551 - Risk Assessment Basics - An overview fo Packaging Machinery				standards	ANSI						
5675		wrinkle;spread		8	Anon.	Mechanics of Wrinkles	Course Notes	2			notes	Fife	Fife	MechanicsWrinklesFife	SpreadWrinkleScan	pdf	18-Dec-09	
5476		guide;steering; displacement; crowned_roller;design;calculation		20	Anon.	Web Steering	Course Notes	3			notes	Fife	Fife	WebSteeringFife	GuideScan	pdf	18-Dec-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
44		safety			Anon.	Machines have become much Safer - But there are still Black Sheep	Dtsch. Drucker.											
5560		roller;balance; critical_speed; journal;stress; design		15	Anon.	KRH Rolls	Engineering Standard	3			report	KRH Rolls	KRH Rolls	KRHrolls	RollerScan	doc and pdf	04-Dec-09	proprietary
46	c	wrinkle;spread ;model		10	Anon.	Mechanics of Wrinkles	Fife Internal Report				report							
43		roll;web;defect		80	Anon.	Web & Roll Glossary	Flexible Packaging Association											
5515		static;safety;pr inting		37	Anon.	Static Electricity and Control in the Gravure Pressroom	GAA Committee report	10			manual	GAA Gravure Assoc. of America	GAA	StaticGrav ureGAA	MiscScan	doc and pdf	16-Sep-09	
5793		wind;density;tn t;control;data_ acquitision		9	Anon.	The WindMaster System	HTRC Automation brochure	2			brochure	HTRC Automation	HTRC Automation	WindMaste rHTRCauto mation	WindMeas ureScan	doc and pdf	22-Sep-09	
5597		roller;alignmen t		1	Anon.	Machine Alignment Solves Common Equipment and Product Problems	Pulp & Paper	2			magazine	Pulp and Paper	OASIS	MachineAli gnmentSol ves	RollerScan	doc and pdf	18-Dec-09	
5540		moisture;humi dity		4	Anon.	Paper and Climate	Rotronic Report	3			report	Rotronic	Rotronic Instrument Corp	MoistureCli mateRotro nic	MoistureSc an	doc and pdf	17-Sep-09	
5600		runnability;pap er;web_break; humidity;printin g_press	01-Apr-40	1	Anon.	Web Breaks on Newspaper Presses	Paper Trade J, vol 110, no 5, pp 40, April 1940	2			magazine	Paper Trade J		WebBreak sNewsPres s	Runnability Scan	doc and pdf	30-Dec-09	
219		runnability;pre ss	01-Apr-40	1	Anon.	Web Breaks on Newsprint PResses, US National Bureau of Standards	Paper Trade J., vol 110, no 15, pp 40, Apr 1940				magazine	Paper Trade J						
47	c	runnability;hu midity;press	01-Jan-54	2	Anon.	Effect of Humidity on Newsprint: Web Breaks and Printing Quality	American Newspaper Publication Association Research Bulletin, no 80, pp 1-2, Jan 1954											
48			01-Dec-62		Anon.	Test for Determining Roll Hardness	Tappi J., vol 45, no12, pp 126A, Dec1962				magazine	TAPPI						

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5790		wind;measure;wit;cameron;strain;roll	01-Dec-63	1	Anon.	Cameron Test for Determining Strain in Paper	Tappi J, vol 46, no 12, pp 123A, Dec 1963	3			magazine	TAPPI	TAPPI	CameronStrainTAPPIrc317	WindMeasureScan	doc and pdf	21-Sep-09	
49		experiment;roll structure;cameron gap;standard	01-Dec-63	1	Anon.	Routine Control Methods RC 317. Cameron Test for Determining Roll Quality	Tappi J., vol 46, no 12, pp 123 A, Dec 1963				magazine	TAPPI						
51			01-Dec-68		Anon.	Advertisement	Tappi J., vol 51, no 12,), pp 175A, Dec 1968				magazine	TAPPI						
52	c	runnability;press	01-Jun-69	2	Anon.	Factors Affecting Paper Runnability	Printing Trades J., pp 55-56, Jun 1969											
5792		wind;measure;hardness;schmidt_hammer;standard	01-Jul-71	1	Anon.	Hardness of Paper Rolls (Using Schmidt Concrete Test Hammer)	TAPPI J, vol 54, no 7, pp 1177, July 1971	2			magazine	TAPPI	TAPPI	HardnessTAPPI	WindMeasureScan	doc and pdf	22-Sep-09	
54		duplex winder;	01-Nov-71		Anon.	New Winder Designed for Coated Lightweight Paper Grades	Pulp & Paper Internernational, vol 13, no 12, pp 64				magazine							
55		survey;	01-Dec-71	7	Anon.	Slitter Rewinders A Special Survey	Converter, vol 8, no 12, pp 22-24 28-31				magazine	Converter						
56		winder;quality	01-Aug-73	1	Anon.	New Winder Improves Roll Quality	Pulp & Paper, vol 47, no 9, pp 76				magazine	Pulp and Paper						
57		survey;slitter;winder	01-Aug-74	7	Anon.	A Survey of Slitting and Rewind Machines	Converter, vol 11, no 8, pp 26 28-30 33 35-36				magazine	Converter						
58		strain;density;roll structure	01-Jan-75		Anon.	Cameron Control of Residual Strain and Roll Density by Three Winders	Cameron Systems, Midland-Ross Corp., 1975											
59	c	calender;roller;maintenance	01-Jul-75	20	Anon.	Care of Calender Rolls, Repair, Regind, Defect	SHW Internal Report, Sep 1984											
60	c	roller;crown;spec	01-Sep-75	7	Anon.	Roll Crown Specifications and Definitions	Tappi, TIS 405-10, Sep 1975				magazine	TAPPI						
61		caliper;measure;density;test	01-Dec-75		Anon.	Measurement of Thickness	American Paper Institute, Instrumentation Program Report, no 60, 1975											

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62			19-Jul-76	1	Anon.	Autotorque Winder Range	Paper, vol 186, no 2, pp 105, Jul 19 1976				magazine	Paper						
63		survey;winder	01-Dec-76	3	Anon.	Survey of Slitting and Rewinding Machinery	Converter, vol 13, no 11, pp19-22				magazine	Converter						
64	c	roller;cover;maintenance	01-Mar-78	3	Anon.	Rubber Covered Rolls, Handling, Care and Storage and Grinding	Beloit Corp., Manual J099-10013, Mar 1978											
66		tension;load cell;edge guide	01-Jun-78	7	Anon.	Equipment for Web Guiding Web Viewing and Tension Control	Converter, vol 15, no 6, pp 22-24 26 27-29, Jun 1978				magazine	Converter						
5539		moisture;print;wrinkle;registration;wrapping	01-Jul-78	5	Anon.	Pressroom Humidifying can prevent Paper Problems	Australasian Printer, pp 4-10, July 1987	2			magazine	Australasian Printer	unknown	PressHumidity	MoistureScan	doc and pdf	16-Sep-09	
67		core shaft	01-Sep-78	2	Anon.	New Concept in Air Shafts	Paper, Film & Foil Converter, vol 52, no 9, pp 84 86, Sept 1978				magazine	Paper Film Foil Converter						
5601		runnability;paper;web_break;crepe_wrinkle;printing_press;winding	09-Nov-78	11	Anon.	1978 NEWSPRINT RUNNABILITY-PRINTABILITY SEMINAR	American Newpaper Publishers Assoc and CPPA, Nov 9-10, 1978	3			magazine	ANPA	ANPA	NewsRunnabilityPrint	Runnability Scan	doc and pdf	30-Dec-09	
68	c	roller;crown;dub	01-Jan-79	6	Anon.	Crowning and Dubbing Information for Covered Rolls	Beloit Corp., Manual J099-10015, Jan 1979											
69		duplex winder;	01-May-79		Anon.	New Generation Winder at Scott Warren Solves High Speed Coating	Paper Age, vol 15, no 5, pp 36-37				magazine	Paper Age						
70		duplex winder;vari-bow;winder;coating	01-May-79	2	Anon.	Scott Optimizes Coated Paper Roll Quality With New Single Drum	Pulp & Paper, vol 53, no 5, pp 98-99, May 1979				magazine	Pulp and Paper						
71		winder	01-May-79	1	Anon.	Scott Reports on Jagenber Vari-Roll Winder	Southern Pulp & Paper Mfr, vol 42, no 5, pp 40				magazine							
72		Plant	01-Oct-79	2	Anon.	Jagenberg Dedicates First U.S. Production Plant	Paperboard Packaging, vol 64, no 10, pp 112-114, Oct 1979				magazine							

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5439		winder;two-drum;instruction;slitting;spreading;book	01-Jan-80	265	Anon.	Beloit Winder School	Beloit classroom notes	10			CourseNotes	Beloit Corp	Beloit Corp	BeloitWinderSchool80	BookScan	doc and pdf	23-Sep-09	
73		core;chuck;torque	01-Nov-80		Anon.	Gudgeon for Driving Cardboard Cores	Research Disclosure, no 199, pp 444											
74		coat;air_knife	01-Jan-81		Anon.	1981 Air Knife Coating Seminar Notes	TAPPI Press, 1981				shortcourse	TAPPI						
75		coat;blade	01-Jan-81		Anon.	1981 Blade Coating Seminar Notes	TAPPI Press, 1981				shortcourse	TAPPI						
76		duplex winder	01-Apr-81	2	Anon.	Single Drum Winders Improve Roll Quality at Westvaco	PIMA, vol 63, no 4, pp 20,22				magazine	PIMA						
77		survey	01-May-81	9	Anon.	Slitter Rewinder Review	Converter, vol 18, no 5, pp 18 20 22 24-26 28-30				magazine	Converter						
78		survey	01-Jul-81		Anon.	Survey of United Kingdom Winders	Paper Technology & Industry, vol 22, no 6, pp184-185				magazine	Paper Technology						
79		drive;energy;power;standard	01-Jan-82		Anon.	Winder Power Requirements	TAPPI TIS 403-11: 14 p					TAPPI						
80		winder	20-Sep-82	1	Anon.	New Name in Slitting and Rewinding	Paper, vol 198, no 4, pp 58				magazine	Paper						
81		core;chuck;survey	01-Oct-82	3	Anon.	Report on Use of Cores in the Paper and Board Industry	Paper Technology & Industry, vol 23, no 8, pp 233-235				magazine	Paper Technology						
82		automation;time cycle;control	01-Oct-82		Anon.	Automatic Roll Changes Reduce Winder Downtime	Pulp & Paper, vol 35, no 7, pp16-17				magazine	Pulp and Paper						
83		drum;slitter;tension;control;winder	01-Dec-82		Anon.	Center Surface Winders New Developments	Converter, vol 19, no 10				magazine	Converter						
84		vibration;framework;	15-Mar-83		Anon.	Profile of Paper Finishing Operations at United Papers Jamsanko	Paper Trade J., vol 167 no 5: 34-35				magazine	Paper Trade J						
85		winder;survey	01-May-83	7	Anon.	Slitter-Rewinder Survey	Converter, vol 20, no 5, pp 13-19				magazine	Converter						

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87		disk;brake;unwind;tension;control	01-Sep-83	2	Anon.	Improved Paper Roll Quality Through Improved Tension Control	Paper, Film & Foil Converter, vol 57, no 9, pp 122-123, Sept 1983				magazine	Paper Film Foil Converter						
5714		wind;density;measure;design	01-Jan-84	22	Anon.	Densitrol by ASEA system for Roll Hardness Control in Two Drum Winders	ASEA manual	2			manual	ASEA	ASEA	DensitrolAsea	WindDensityScan	doc and pdf	07-Oct-09	
88		shaftless	01-Jul-84		Anon.	Quebec Mill Improves Roll Quality With New Shaftless Winder	Pulp & Paper, vol 37, no 5, pp 28 31				magazine	Pulp and Paper						
89		density;measurement;pressure;control;quality control;winding;ro	01-Oct-84		Anon.	Rewinding Technology	ATIPCA 23, no4, pp14, 16-18, 20-22 (Oct./Nov. 1984). [Span.]											
90		report;two drum winder;duplex;evaluation	08-Oct-84	1	Anon.		TAPPI Finishing and Converting Conf. Proc., 1984				conference	TAPPI						
91		duplex winder;roll structure	05-Nov-84	1	Anon.	Single Drum Winder Success at Rauma Finland Mill	Paper, vol 202, no 7, pp17, Nov 5 1984				magazine	Paper						
92		wind;block;film;test	01-Jan-85	3	Anon.	Standard Test Method for Blocking of Plastic Film	ASTM D1893-67				standard	ASTM						
5791		wind;measure;roll;round;tir	01-Jan-85	1	Anon.	Paper Roll Unroundness Meter	Swedish Newsprint Research Centre (TFL), Danderydsvagen 95, S-1	3			brochure	STFL	STFL	PaperRollRoundnessTIRmeasure	WindMeasureScan	doc and pdf	21-Sep-09	
93		reel;handling;automation;unwind	01-Feb-85	14	Anon.	Reel Handling Equipment	Converter, vol 22, no 2, pp 6-19				magazine	Converter						
94		web;tension;control;unwind;brake	01-Feb-85	2	Anon.	Keeping Web Tension Under Control	Paper, Film & Foil Converter, vol 59, no 2, pp 48-49, Feb 1985				magazine	Paper Film Foil Converter						
95		winder;safety;slitter;survey	01-Aug-85	11	Anon.	Slitter Rewinder Survey	Converter, vol 22, no 8, pp12-15 17-19 21 23-25				magazine	Converter						

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97	o	wind;vibration; measurement	01-Nov-85	15	Anon.	Investigation of Winder Vibration Champion International Pensacola #5	Brown & Root Internal Report											
98		computer;splice;coating;	01-Sep-86	3	Anon.	Unwind/Rewind Line Debuts	Converting Magazine, vol 4 no 9, pp 54-56				magazine	Converting Magazine						
99		automation;control;production;machine;design	01-Mar-87		Anon.	Mills Install New Equipment to Increase Productivity	American Papermaker, vol 50, no 3, Mar 1987				magazine	American Papermaker						
101	c	paper;moisture;humidity;print;runnability	01-Jul-87	7	Anon.	Press Humidity Can Prevent Paper Problems	Australasian Printer, Jul 1987											
102		measurement; standard;paper;test;TAPPI;book	01-Jan-88	2677	Anon.	TAPPI Test Methods, 1989; Volume One	Tappi Test Methods, Atlanta, GA: TAPPI, 1988	10			Book	TAPPI						
103		density;roll-hardness;two drum winder	17-May-88	14	Anon.	Densitrol by ASEA. The ASEA HYLTE System for Roll Hardness Control	ASEA											
104			07-Jul-88		Anon.	Standard Test Method for Static and Kinetic Coefficients of Friction	ASTM 1984				standard	ASTM						
105		static;web cleaning	03-Aug-88	7	Anon.	Static Elimination Equipment	Converter, Aug 1978				magazine	Converter						
107		TAPPI;paper;test;measurement;standard	05-Dec-88		Anon.	TAPPI Test Methods 1988; Volume Two	Atlanta, GA. TAPPI, 1988											
106		TAPPI;paper;test;measurement;standard	05-Dec-88		Anon.	TAPPI Test Methods 1988; Volume One	Atlanta, GA. TAPPI, 1988											
109		wind;block;film;test	01-Jan-89	5	Anon.	Standard Test Method for Block Load of Plastic Film by the Parallel Plate Method	ASTM D3354-89				standard	ASTM						
5495		measure;caliper;standard;textile;nonwovens	01-Jan-89	3	Anon.	Textiles - Test methods for nonwovens - part 2: determination of thickness	ISO 9073-2:1989	3			standards	ISO	ISO	TestNonwovenThickness	MeasurementScan	doc and pdf	29-Dec-09	

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108		measurement;standard;paper;test;TAPPI;book;	01-Jan-89	1589	Anon.	TAPPI Test Methods, 1989; Volume Two	TAPPI Test Methods, Volume Two, Atlanta, GA: TAPPI, 1989	10			Book	TAPPI						
110		dryer;fabric;air;permeability	01-Apr-89		Anon.	Control of Air Permeability of Dryer Fabrics for Paper Machine Clothing by use of Santoprene	Research Disclosure, ISSN0374-4353, Apr 1989											
111		wind;calender;seminar	01-Apr-89		Anon.	1989 Calendering and Winding Seminar	TAPPI Calendering and Winding Seminar, Houston, Apr 1989				shortcourse	TAPPI						
112		wind;driveshaft;core	01-May-89		Anon.	New Pneumatic-Mechanical Drive Shafts for Large Rolls and Cores with Extreme Internal Diameters	Coating, May 1989											
113		unwind;brake;tension;control	01-May-89		Anon.	A Few Good Brakes	Graphic Arts Monthly, May 1989				magazine							
114			01-May-89		Anon.	Web Tracking Apparatus	Research Disclosure, May 1989											
115		speed;newsprint	01-Jun-89		Anon.	Increasing the Speed of a Newsprint Machine	Allg. Pap. Rundsch., Jun 1989											
116		wind;mill	01-Jun-89		Anon.	Rottersac Invests in Winding	Papeterie, Jun 1989											
117		core;quality_control;tolerance	01-Jul-89		Anon.	Paperboard Cores for Tapes Now Meet Closer Tolerance Levels	Converting World, Jul-Aug 1989											
118		sheet;trim	01-Aug-89		Anon.	Review of Sheeters and Trimmers	Print Impress, Aug 1989											
119		wind;cigarette;tissue	01-Sep-89		Anon.	Slitter-Rewinder for Cigarette Tissue	Converting, Sep 89											
120		wind;economics	01-Sep-89		Anon.	Winding Machine Expense Pays Off	Pack Info, July 1989											

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121		tension;control	01-Sep-89		Anon.	No Problem with Tension for this Paper Converter	Paper, Film & Foil Converter, vol 63, no 9, Sep 1989				magazine	Paper Film Foil Converter						
122		tension;measure	01-Sep-89		Anon.	Taking the Strain	Paper, Sep 1989				magazine	Paper						
123		wind;density	01-Sep-89		Anon.	Top-Formers Introduced	Pulp & Paper, vol 63, no 9, Sep 1989				magazine	Pulp and Paper						
124		wind	20-Sep-89		Anon.	For Uniform Paper Rolls	Allg. Pap. Rundsch., Sep 20 1989											
5497		measure;online;thickness;paper	01-Oct-89	1	Anon.	Skiing over Cockles	Paper, pp 39, Oct 10, 1989	2			magazine	Paper	Paper	SkiingCockles	MeasurementScan	doc and pdf	29-Dec-09	
126		wind;seminar	01-Nov-89		Anon.	Slitting Rewinding Fundamentals for Converters	CEMA Workshop, Nov 1989				shortcourse	CEMA						
127		wind;film	01-Nov-89		Anon.	A Revolution in Winding Wide Film and Sheet	Converter, Oct 1989				magazine	Converter						
128		roll;reel;handling	01-Nov-89		Anon.	Wider Reel Handling Joins Control Advance	Converting World, Nov 1989											
129		wind	01-Nov-89		Anon.	Centre-Surfaced Slitter-Winders	Paper, Film & Foil Converter, vol 63, no 11, Nov 1989				magazine	Paper Film Foil Converter						
130		trade_show	01-Nov-89		Anon.	CMM7 Show Report	Paper, Film & Foil Converter, vol, 63, no 11, Nov 1989				magazine	Paper Film Foil Converter						
131		tension;control	01-Nov-89		Anon.	Web Tension Controller (Cleveland and Machine Controls)	Rubber World, Nov 1989											
132		roller;ceramic	01-Dec-89		Anon.	Rollers Help Keep Pace with Demand	Converting Magazine. Dec 1989				magazine	Converting Magazine						
5440		winder;two-drum;instruction;slitting;spreading;book	01-Jan-90	313	Anon.	Understanding Winding	Beloit classroom notes	10			CourseNotes	Beloit Corp	Beloit Lenox	LenoxWinderSchool90	BookScan	doc and pdf	25-Sep-09	
136		board;slit;score	01-Jan-90		Anon.	Slitter Scorer Development	Board Converting News, Jan 1990											
133		thread	01-Jan-90		Anon.	A New Web Transfer System for Closing the Draw between the Last Press and the Dryer Section	Canadian Pulp and Paper Assoc. Annual Mtg. Proc., Jan 1990				magazine	Canadian Pulp & Paper Ind						

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137		wind	01-Jan-90		Anon.	Slitters/Rewinders	Converter, Jan 1990				magazine	Converter						
134		wind;reel;slit	01-Jan-90		Anon.	Reeling and Slitting Machines in the Paper and Board Making Industry	HM Stationery Office Pamphlet											
138		diaper;machine	01-Jan-90		Anon.	What's New in Diaper Machinery	Nonwovens, Jan 1990				magazine							
139		slit;maintenance	01-Jan-90		Anon.	Prevantative Checks of the Bottom Belt and Slitter Knife	Tappi J., Vol 73, no 1, Jan 1990				magazine	TAPPI						
135		wind;splice	01-Jan-90		Anon.	Pneumatic Splicer on the Autosuk and Texconer Winders	Textilni Technika, vol 2, 1990											
140		dust;tissue	01-Feb-90		Anon.	Dust Extraction is a Problem Sover for Tissue Manufacturer	paper Europe, Feb 1990											
141		print;slit;wind	01-Feb-90		Anon.	Machines for Printing, Cutting and Winding	Papier, Feb 1990				magazine							
142		slit;waterjet	01-Feb-90		Anon.	Waterjet Slitting	Pulp & Paper, Feb 1990				magazine	Pulp and Paper						
143		roller;cover	01-Mar-90		Anon.	Urethane Rollers	Converting Magazine. Mar 1990				magazine	Converting Magazine						
144		core;handling	01-Apr-90		Anon.	Core Handling	Converting Magazine. Apr 1990				magazine	Converting Magazine						
145		wind	01-Apr-90		Anon.	Non-Stop Winding Capability Greatly Boosts Preprinted Liner Production	Flex, Apr 1990											
146		length;measure	01-Apr-90		Anon.	Length Measuring Machine	Paper Technology, Apr 1990				magazine	Paper Technology						
5596		roller;alignment	01-Apr-90	1	Anon.	Realignment Program Keeps Quality in Check	Paper, Film & Foil Converter, April 1990	2			magazine	Paper Film Foil Converter		RealignmentProgram	RollerScan	doc and pdf	18-Dec-09	
147		unwind;stand	01-May-90		Anon.	Reel Stands Roll-up	Converting Today, May 1990											
149		emboss;steel-steel;roller	01-Jun-90		Anon.	Steel-to-Steel Embossing Rollers	Converter, Jun 1990				magazine	Converter						

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150		tension;print	01-Jun-90		Anon.	Tension in Flexographic Machines I	Euro Flexo Mag, Jun 1990				magazine							
148		wind;slit;film	01-Jun-90		Anon.	Slitting and Rewinding of Plastic Film	Poliplasti, Jun 1990											
151		convert;sensor	01-Jul-90		Anon.	Web Monitor Sees All	Converting Today, Jul-Aug 1990											
152		core;coreshaft	01-Jul-90		Anon.	Tips for Lighter Shafts	Paper, Film & Foil Converter, vol 64, no 7, Jul 1990				magazine	Paper Film Foil Converter						
154		static	01-Aug-90		Anon.	Solving Static Problems for Twenty Five Years	Converter, Aug 1990				magazine	Converter						
155		static	01-Aug-90		Anon.	Specially Designed for the Converting Industry	Converter, Aug 1990				magazine	Converter						
153		static	01-Aug-90		Anon.	Static Elimination	Converter, Aug 1990				magazine	Converter						
160		roller;cover	01-Sep-90		Anon.	Rolls and Roll Covers Today	Allg. Pap. Rundsch., Sep 1990											
158		wind;nonwoven	01-Sep-90		Anon.	Boyd Adds Traverse Winding	Nonwovens Industry, Sep 1990				magazine							
157		wind	01-Sep-90		Anon.	Never go off the Straight Path	Pap. Kunstst. Verarb., Sep 1990											
159		wind	01-Sep-90		Anon.	Slitter/Rewinder Suited for FAX Stock	Paper, Film & Foil Converter, vol 64, no 9, Sep 1990				magazine	Paper Film Foil Converter						
156		sensor;noncontact;nonwoven	01-Sep-90		Anon.	Contactless on-line Testing in Nonwoven Web Production Process	Textil Praxis International, Jul 1990											
162		coreshaft;carbon_fiber	01-Nov-90		Anon.	Carbon Fiber Core Shafts	Converting, Nov 1990											
163		core	01-Nov-90		Anon.	Precut Cores	Converting, Nov 1990											
161		roller;coating	01-Nov-90		Anon.	Coating for Winder Roll (ers)	Paper South African, Nov/Dec 1990											
164		robot;reel	01-Nov-90		Anon.	Robot Reels in at Allan Denver	Printing World, Aug 1990											
165		wind;automation	01-Jan-91		Anon.	Fast Roll Change	Board Converting News, Jan 1991											

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166		bulk;density;measure	01-Jan-91		Anon.	Determination of Bulking Thickness, Apparent Bulk Density, Compressibility and Compressibility Index of Soft Creped Tissue Paper	British Standards Institute, BS7387:1991											
5496		measure;caliper;standard;bulk;density;tissu	01-Jan-91	5	Anon.	Method for Determination of the bulking thickness, apparent bulk density, compressibility and compressibility index of soft creped tissue	BS 7387: 1991	3			standard	BSI	BSI	Thickness DensityTissue	MeasurementScan	doc and pdf	29-Dec-09	
167		convert;machine;directory	01-Jan-91		Anon.	Paper Film Foil Converter Annual Directory and Buyers Guide	Maclean Hunter Publishing, 1991											
168		sensor;basis_weight	01-Jan-91		Anon.	Apparatus for the Area Weight Measurement of a Moving Web	Research Disclosure, Vol 321, 91											
169		wind	01-Feb-91		Anon.	The Listening Ear	Converter, Feb 1991				magazine	Converter						
170		wind;jumbo	01-Mar-91		Anon.	The Big Reel	Dtsch. Papwirtsch., no 3, 1991											
171		core;condition	01-Apr-91		Anon.	Reconditioned Cores - a Double Savings	Autralian Packaging, Apr 1991											
173		fold	01-May-91		Anon.	Folding Machine for Wet Wipes	Allg. Vliesstof-Rep., vol 19, no 5, 1991											
172		trim;handling	01-May-91		Anon.	Trim Handling Needs	Pulp & Paper, May 1991				magazine	Pulp and Paper						
174		splice;nonwoven	01-Jun-91		Anon.	Mallet's Splicer for Non-wovens, Tissue, Films	Converter, Jun 1991				magazine	Converter						
175		wind	01-Jun-91		Anon.	Slitter Rewinder for Coated Papers	Converter, Jun 1991				magazine	Converter						
176		calender;soft;news	01-Aug-91		Anon.	Soft Calender for Newsprint	Asia Pacific Pulp and Paper, Aug 1991											

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177		coreshaft;composite;carbon_fiber	01-Sep-91		Anon.	Carbon Fiber Solves Critical Shaft Handling Problems	Nonwovens Industry, Sep 1991				magazine							
178		slit	01-Sep-91		Anon.	Slitter Performance: Problems and Solutions	Paper South Africa, vol 11, no 3, 1991											
179		coat	01-Sep-91		Anon.	CTC Running Smoothly	Papier Puu, Sep 1991				magazine							
180		core;fiber	01-Sep-91		Anon.	Paper Cores are Environmentally Friendly	Verpack-Rundsch., Sep 1991											
184		convert;tape;splice;core	01-Oct-91		Anon.	Adhesive Tapes for Converting	Converter, Oct 1991				magazine	Converter						
182		convert;tissue	01-Oct-91		Anon.	Gently Tackling Tissue Converting	Converting, Oct 1991											
181		bond;nonwoven;formation	01-Oct-91		Anon.	Bonding and Web Formation	Nonwovens Industry, Oct 1991				magazine							
183		roll;handling	01-Oct-91		Anon.	Modern Roll Finishing	Pulp and Paper, vol 65, no 10, Oct 1991				magazine	Pulp and Paper						
188		slit	01-Nov-91		Anon.	Improved Slitter Performance	Austropack, Nov 1991											
185		core;fibre	01-Nov-91		Anon.	Fiber Cores for Fax Paper	Converting, Nov 1991											
187		tissue	01-Nov-91		Anon.	Tissue Makers	Paper, Nov 1991				magazine	Paper						
186		drive	01-Nov-91		Anon.	Drum Reel Hoist Problem	Pulp and Paper, vol 65, no 11, Nov 1991					Pulp and Paper						
189		core;cut	01-Nov-91		Anon.	Clean Cutting of Paper Cores	Research Disclosure, Nov 1991											
191		static	01-Dec-91		Anon.	Static Control	Converter, Dec 1991				magazine	Converter						
192		tension;control	01-Dec-91		Anon.	Tension Control	Converter, Dec 1991				magazine	Converter						
193		spread	01-Dec-91		Anon.	Web Control Equipment from Mount Hope	Converter, Dec 1991				magazine	Converter						
190		core	01-Dec-91		Anon.	Seamless Cores	Converting, Dec 1991											
197		wind	01-Jan-92		Anon.	Slitter/Rewinder with a Gentle Touch	Med. Text., Jan 1992											
196		guide	01-Jan-92		Anon.	Optical Edge Control System	Papier Puu, vol 74, no 1, 1992											
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198		calender	01-Mar-92		Anon.	Hunt and Moscrop: A Worldwide Success Story	Equipment Material Manufacturers, Mar-Apr 1992											
199		crease;wrinkle;defect;detect	01-Mar-92		Anon.	Fine Papers Checked for Creases	Packaging News, Mar 1992											
201		static	01-Apr-92		Anon.	Static Problems in Handling Packaging Films	Gummi Fasern Kunstst., Apr 1992											
200		fold	01-Apr-92		Anon.	Elsner Introducing Z-Fold Machine for Nonwovens	Nonwovens Industry, Apr 1992				magazine							
206		turnbar;air_float;dry	01-May-92		Anon.	Noncontact Drying and Web Handling for Sizing and Coating	Equip. Mach. Mater., May-Jun 1992											
203		coat;wind	01-May-92		Anon.	Coating and Winding	Paper, May 1992				magazine	Paper						
204		slit	01-May-92		Anon.	Cutting it Fine	Paper, May 1992				magazine	Paper						
202		calender;soft	01-May-92		Anon.	Soft Calenders	Paper, May 1992				magazine	Paper						
205		tension;control	01-May-92		Anon.	CMC Tension Controls Fitted to New Ricon Coating and Laminating Line	Print Converting Monthly, May 1992											
207	o	convert;editorial	01-Oct-92		Anon.	Never-Ending Story Mills should integrate finishing and converting into the total papermaking process	Papermaker, pp 33-34, Oct 1992				magazine							
5559		roller;balance	01-Oct-93	10	Anon.	Balance	Engineering Standard	3			report	Paper Converting Machine Company	Paper Converting Machine Company	BalancePCMC	RollerScan	doc and pdf	04-Dec-09	proprietary
209	o	anilox;print;roller;clean	01-Oct-94	4	Anon.	Heart Smart	Packaging Printing & Converting, pp 34-38, October 1994											
208		reel;winder;optireel	01-Oct-94	2	Anon.	Reeling Improvements	Papermaker, pp 17-18, October 1994				magazine							

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
210		wind;length;diameter;design	01-Dec-94	4	Anon.	A Roll: from the Drawing Board to the Supermarket Shelf	Perini Journal, December 1994											
212		static;ionize;safety;book	01-Jan-95		Anon.	ESD Handbook	Electrostatic Discharge Assoc, Rome, NY, 1995	10			Book							
211		waterjet;slitting	01-Jan-95	2	Anon.	Supplier Update: Pope & Talbot ... Waterjet Slitter	Tappi J., vol 78, no 1, pp 233-234				magazine	TAPPI						
213		waterjet;slitting;tissue	01-Feb-95	2	Anon.	Waterjet Slitting Beneficial to this Tissue Converter	Paper, Film, Foil Converter, pp 40-42, February 1995				magazine	Paper Film Foil Converter						
214		electric_drive;seminar;course;book	14-Mar-95	298	Anon.	TAPPI Paper Machine Drives Short Course Notes	TAPPI, Process Control Electrical and Information Division, March 14-17, 1995					TAPPI						
2616		roller;traction;friction;measurement	01-Jan-96	5	Anon.	Standard Test Method for Measurement of Web/Roller Friction Characteristics	Annual Book of ASTM Standards, 1996				standard	ASTM						
5457		paper;grades	27-Mar-96	9	Anon.	Corona Treatment: an Overview	CEMA Shortcourse The Coating and Lamination Process Substrates, Coatings and Equipment, March 27, 1996	2			shortcourse	CEMA		BasePapers90s	CtgCema96	doc and pdf	01-Oct-09	
215		wind;static;film	01-Apr-96	2	Anon.	Finding a Simple Solution to a Shocking Problem	Paper Film Foil Converter, pp 62-63, April 1996				magazine	Paper Film Foil Converter						
216		web_break;runnability;winder;rider_roll	01-Dec-96	1	Anon.	Winder Systems Supplier has Winning Ways	Papermaker, pp 41, December 1996				magazine							
5595		roller;journal;design;stress;deflection;sizing;calculation	01-Jan-98	10	Anon.	KRH Roll Engineering Data	internal report	3			report	KRH Rolls	KRH Rolls	KRHrollEngineering	RollerScan	doc and pdf	18-Dec-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
217		winding	01-Feb-98	4	Anon.	Winding Technology for the next Millennium - with Sirius	Twogether, publishedh by Voith Sulzer Papiertechnik, Heidenheim, February 1998											
5866		std;safety;	01-Jan-99		Anon.	ANSI B151.7-1999 - Plastics Machinery - Plastics Extrusion Machines Requirements for the Manufacture, Care and Use	ANSI B151.7-1999 - Plastics Machinery - Plastics Extrusion Machines Requirements for the Manufacture, Care and Use				standards	ANSI						
5862		std;safety;	01-Jan-99		Anon.	ANSI/RIA R15.06-1999 - Industrial Robots and Robot Systems - Safety Requirements	ANSI/RIA R15.06-1999 - Industrial Robots and Robot Systems - Safety Requirements				standards	ANSI						
5863		std;safety;	01-Jan-99		Anon.	ANSI/SPI B151.2-1999 - Film Casting Machines	ANSI/SPI B151.2-1999 - Film Casting Machines				standards	ANSI						
5864		std;safety;	01-Jan-99		Anon.	ANSI/SPI B151.4-1999 Blown Film Take-Off and Auxilliary Equipment	ANSI/SPI B151.4-1999 Blown Film Take-Off and Auxilliary Equipment				standards	ANSI						
5860		std;safety;	01-Jan-00		Anon.	ANSI B11.TR3-200 - Risk Assessment and Risk Reduction - A Guideline to Estimate, Evaluate and Reduce Risks Assoicated with Machine Tools	ANSI B11.TR3-200 - Risk Assessment and Risk Reduction - A Guideline to Estimate, Evaluate and Reduce Risks Assoicated with Machine Tools				standards	ANSI						
5865		std;safety;	01-Jan-00		Anon.	ANSI/SPI B151.5-1999 Plastic Film and Sheet Winding Machinery	ANSI/SPI B151.5-1999 Plastic Film and Sheet Winding Machinery				standards	ANSI						
2695		electric;heat;roller;quality	01-Apr-00	1	Anon.	Electrically Heated Rollers are Top Technology Choice	Paper, Film & Foil Converter, vol 74, no 4, pp 78-79, April 2000				magazine	Paper Film Foil Converter						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2696		mmi;hmi;computer;ergonomics	01-Apr-00	2	Anon.	Human/Machine Interface Offers Best of Two Worlds	Paper, Film & Foil Converter, vol 74, no 4, pp 80-82, April 2000				magazine	Paper Film Foil Converter						
5729		wind;slit;razor;tension;upgrade	01-May-00	16	Anon.	Web Handling: Making a Slitter/Winder Upgrade Work for You	Paper Film Foil Converter Magazine Reprint, May 2000	2			reprint	Paper Film Foil Converter	Paper Film Foil Converter Magazine	SlitWindUpgrade	WindGeneralScan	doc and pdf	26-Oct-09	
2718		moisture;profile;defect	01-Jul-00	4	Anon.	Troubleshooting moisture profile problems in the cross-machine direction	Tappi J, vol 83, no 7, pp 48-51, July 2000.	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4835&DID=517618	Poor cross-machine direction (CD) moisture profiles can result in nonuniform sheet properties, converting problems, and poor runnability in the form of wrinkles and breaks.	magazine	TAPPI						
2775		wound;roll;packaging;shipping;stacking;measurement	01-Dec-00	1	Anon.	Better Packaging	Mechanical Engineering, vol 122, no 12, pp 10, December 2000											
3038		std;safety;winder	01-Jan-03		Anon.	ANSI B151.5 - Plastics Machinery - Winding	ANSI B151.5 - Plastics Machinery - Winding				standards	ANSI						
3039		std;safety;signs	01-Jan-03		Anon.	ANSI Z535.4 - Product Safety Signs and Labels	ANSI Z535.4 - Product Safety Signs and Labels				standards	ANSI						
3042		std;safety;risk_assess	01-Jan-03		Anon.	EN 1050 - Principles for Risk Assessment	EN 1050 - Principles for Risk Assessment				standards							
3040		std;safety;general machine	01-Jan-03		Anon.	EN Safety 292.2	EN 292.2				standards							
3041		std;safety;control	01-Jan-03		Anon.	EN Safety 954.1	EN 954.1				standards							
3043		std;safety;e-stop;drive	01-Jan-03		Anon.	ISO 13850 - Emergency Stop	ISO 13850 - Emergency Stop				standards							
3044		std;safety;upper_limb	01-Jan-03		Anon.	ISO 13852 - Safety Distances	ISO 13852 - Safety Distances				standards							
3045		std;safety;lower_limb	01-Jan-03		Anon.	ISO 13853 - Safety Distances	ISO 13853 - Safety Distances				standards							

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3046		std;safety;risk_asses	01-Jan-03		Anon.	ISO 14121 - Risk Assessment	ISO 14121 - Risk Assessment				standards							
3047		std;safety;platform;walkway	01-Jan-03		Anon.	ISO 14122 - Permanent means of access to machinery. Stairways, stepladders and guard-rails	ISO 14122 - Permanent means of access to machinery. Stairways, stepladders and guard-rails				standards							
3048		std;safety;openings	01-Jan-03		Anon.	ISO 15534 - Ergonomic design for the safety of machinery -- Part 1: Principles for determining the dimensions required for openings for whole-body	ISO 15534 - Ergonomic design for the safety of machinery -- Part 1: Principles for determining the dimensions required for openings for whole-body				standards							
3049		std;safety;lockout/tag_out	01-Jan-03		Anon.	OSHA 29CRF1910.147 - Ergonomic design for the safety of machinery -- Part 1: Principles for determining the dimensions required for openings for whole-body	OSHA 29CRF1910.147 - Ergonomic design for the safety of machinery -- Part 1: Principles for determining the dimensions required for openings for whole-body				standards							
3050		std;safety;guarding	01-Jan-03		Anon.	OSHA Safety 29CRF1910.212	OSHA 29CRF1910.212				standards							
3140	o	coat;science	26-Oct-03		Anon.	Bringing Real Science into Real Coatings - A challenge to the Industry (Autotype)	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003					AIMCAL						

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3160		humidity;curl;wrinkle;static	01-Nov-03	3	Anon.	Humidity control improves productivity	Converting Magazine, vol 21, no 11, pp 44-47, Nov 2003	3	http://www.convertingmagazine.com/article/308963-Humidity_control_improves_productivity.php	"We knew assuring consistent humidity levels throughout the year would improve safety and comfort for the people in the plant, reduce sick days and improve productivity	magazine	Converting Magazine						
2699	o	book;rubber;roller;design;manufacture	01-Jan-05	254	Anon.	Rubber Roller Group Handbook - Elastomeric Covering	Rubber Roller Group, Union Grove, AL 2004.	10			Book	Rubber Roller Group		RubberRollerHandbook05	BookScan	doc and pdf		
5890		iweb;web_handling_research_center;whrc;conference;abstracts	01-Jun-05	288	Anon.	IWEB Abstracts	Web Handling Research Center, Oklahoma State Univ., abstract list	10	http://webhandling.okstate.edu/documents/ABSTRACT.pdf	List of all paper abstracts for first eight interntional conferences	List	WHRC	WHRC	IWEBabstracts	IWEB	pdf		
3335		suction_roll;grooving;paper	01-Sep-05	2	Anon.	A practical guide to grooving suction rolls	Solutions, pp 42-44, Sept 2005				magazine	TAPPI	Metso					
5861		std;safety;	01-Jan-07		Anon.	ANSI / ISO 12100 - 1 and 2 - Safety of Machinery - Basic concepts, general principles for design	ANSI / ISO 12100 - 1 and 2 - Safety of Machinery - Basic concepts, general principles for design				standards	ANSI						
5859		std;safety;	01-Jan-09		Anon.	ANSI B11.19-2003 (R2009) - Peformance Criteria for Safeguarding	ANSI B11.19-2003 (R2009) - Peformance Criteria for Safeguarding				standards	ANSI						
10025		roller;thermal;heat_transfer;spiral;model;FEM	01-May-14	2	Anon.	Everything Flows	C2 International	3		Menges Rollers uses computational fluid dynamics to design improved heat transfer rollers	magazine	C2 International	Menges					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
220		steam;dry;heat_transfer;siphon	01-Feb-69	12	Appel, D.W. and Hong, S.H.	Condesate Distribution and its Effects on Heat Transfer	Pulp and Paper Magazine of Canada, Tech Paper T51, pp 66-77, February, 1969				magazine	Pulp and Paper Canada						
2590		slit;razor;sharpness	01-Jan-96	8	Arcona, C. and Dow, T.A.	The Role of Knife Sharpness in the Slitting of Plastic Films	J of Materials Science, vol 21, pp 1327-1334, 1996.				magazine							
2813	o	slit;model;measure	01-Jan-96	8	Arocona, C. and Dow, T.A.	The role of knife sharpness in the slitting of plastic films	J of Materials Scienc, vol 31, pp 1327-1334, 1996				magazine							
2821	o	wind;model;thermal;air	11-Jun-01	10	Arola, K. and von Hertzen, R.	Study of Stress-Strain Relation for Paper Roll	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC						
3085	o	nip;tension;model	01-Jun-03	8	Arola, K. and von Hertzen, R.	Strain-Inducing Mechanism of a Rolling Nip on a Paper Stack	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC						
3731		wind;nip;model	01-Jan-05	4	Arola, K. and von Hertzen, R.	Development of Sheet Tension under a Rolling Nip on a Paper Stack	Int'l J of Mechanical Sciences, vol 47, pp 110-133, 2005											
3734		wind;nip;model	01-Jan-07		Arola, K. and von Hertzen, R.	Two Dimensional Axisymmetric Winding Model for Finite Deformation	Computational Mechanics, vol 40, pp 933-947, 2007											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6015		wind;nip;model	01-Dec-06		Arola, Kwila	CONSTITUTIVE MODELLING AND COMPUTATIONAL SIMULATION OF NIP MECHANICS AND WINDING OF PAPER ROLLS	Ph.D. Thesis Helsinki University of Technology, Laboratory for Mechanics of Materials Research Reports	5			thesis	HUT	HUT	WindNipMechanicsArolaThesis	BookScan	pdf	18-Oct-09	
221		static	01-Oct-89		Arthur, C.	Controlling that Static	Print World, Oct 1989											
222		noise;safety	01-Jul-90		Arthur, C.	Too Noisy - by Half	Printing World, Jul 1990											
223		tension;print;model	01-Jan-77		Arwidsson, S.	Torsional Dynamics of a Web Fed Offset Press	Chalmers Univ. of Tech., Ph.D. Thesis, Swedent, 1977											
224		package;design;test	01-Oct-92	5	Ashley, Steven	Designing Damage Proof Packaging for Products	Mechanical Engineering, pp 66-70, Oct 1992											
225		regenerative;brake;drive	01-Feb-72	5	Asprey, Peter	Quebec North Shore No. 4 Newsprint Winder Drive	Pulp & Paper Canada, vol 73, no 2, pp 67-71				magazine	Pulp and Paper Canada						
226		wind;rebuild	01-Apr-90		Atkins, Jim	Winder Modernization - An Attractive Alternative	TAPPI Papermakers Conf. Proc., Apr 1990	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5740&DID=513930	Conversion to shaftless winding, new slitter sections, and new drives and controls all result in improved roll quality, faster operation, and greater operator safety	conference	TAPPI						
3419		tissue;towel;wind	01-Sep-04		Atkins, Jim	A beginner's guide to towel and tissue, Parts I & II	Solutions, September and November 2004				magazine	TAPPI						
3420		tissue;towel;wind	01-Aug-06	3	Atkins, Jim	From jumo to just-right	Paper 360, August 2006											
10059		gage;thickness;scanner	08-Jun-14		Atkinson, Dave	Going Green with Gauging Technology for Coaters: What Works, What Doesn't	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014	4			conference	AIMCAL	NDC Infrared Engineering					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3426	o	film,gels	18-Sep-06		Aubee, Norman D.	Polyethylene Gels: A Primer	TAPPI PLACE Conf, Cincinnati, September 17-21, 2006	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=9355&DID=552239	A review of the different types of gels typically found in polyethylene, along with a suggested troubleshooting process and methods to reduce specific gel types will be discussed	conference	TAPPI	Nova					
227		wind;automation	04-Oct-94	8	Augustine, Michael	Overview of Unwinding/Splicing and Winding/Roll Changing Equipment	AIMCAL 1994 Fall Tech. Conf. Proc., Atlanta, pp 87-94, Oct 4-5, 1994					AIMCAL						
2892	o	die;coating	22-Oct-01		Augustine, Mike	Slot Die, Processing Advantages on Thin Gauge Films	AIMCAL Fall Tech Conf, Oct 22-24, 2001					AIMCAL						
228		tension;control	01-Apr-80	4	Austin, Stan	Tension Control	Power Transmission Design, pp 30-33, Apr 1980						Dover					
3026	o	tension;control	13-Apr-03	5	Austin, Stan	Tension Control in Converting Machines	CEMA Coating and Laminating Seminar, Chicago, April 15, 2003				shortcourse	CEMA	Dover					
10075		roller;heat_transfer;stress;FEM;CFD;model	01-Sep-14	5	Awe, Jeffrey	Using technology to guarantee optimum performance in heat-transfer roller operation	Converting Quarterly, qtr 3 2014	4			magazine	AIMCAL	Menges Roller					
2662		cone;winding;yarn	01-Sep-98	6	Babaarslan, Osman and Cherian, Iype	Tension variations during cone winding on an open-end spinning system	Textile, Research J., vol 68, no 9, pp 649-654, September 1998				magazine	Textile Research J						

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229		material;property;friction;paper	01-Jan-88		Back, E.L.	The oxidative activation of paper surfaces and friction between papers	Das Papier, vol 42, no 10A, V31, 1988.				magazine							
230		material;property;friction;paper	01-Jan-91		Back, E.L.	Paper-to-paper and paper-to-metal friction	International Paper Physics Conf, TAPPI PRESS, Atlanta, GA, 49, 1991	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5691&DID=515942	Experimental work on paper-to-paper and paper-to-metal friction is reviewed and compared with the empirical laws for non-lubricated friction								
231		material;property;friction;roller	01-Sep-91		Back, E.L.	Paper-Paper and Paper-Metal Friction	TAPPI Paper Physics Conf. Proc., Sep 1991				conference	TAPPI						
232		paper;property;moisture;absorption	01-Jun-83	11	Back, E.L. and Salmen, L. and Richardson, G.	Transient Effects of Moisture Sorption on the Strength Properties of Paper and Wood Based Materials	Svensk Papperstidn., vol 86, no 6, pp R61-R71, Jun 1983				magazine							
233		defect;sensor	01-May-92		Badger, J.C.	An Automatic Web Inspection System with Advanced Defect Detection and Classification Capabilities	TAPPI Nonwovens Conf. Proc., May 1992	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5636&DID=516554	The system has been applied to the inspection of paper, plastic film and aluminum webs. The iS-1 and iS-1+ are also ideally suited for the detection and classification of defects on nonwoven web products	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5730		wind;productivity;time_cycle		3	Bagnato, Louis J.	Have Computer, Will Travel: Beloit's Electronic Winder Spreadsheet		3			magazine		Beloit	WindTimeCycleBagnato	WindGeneralScan	doc and pdf	24-Oct-09	
234		duplex;two drum winder	17-Oct-82	1	Bagnato, Louis J.	Duplex Vs. Conventional Two-Drum Winding	TAPPI Finishing and Converting Conf. Proc., 1982 Winding Committee				conference	TAPPI	Beloit					
235		roll structure;two drum winder;duplex winder	08-Oct-84		Bagnato, Louis J.	Report on Two-Drum Vs. Duplex Winding	TAPPI Finishing and Converting Conf. Proc., (Savannah), pp 79-83				conference	TAPPI	Beloit					
5886		wind;reel;tnt	01-Oct-93		Bagnato, Louis J.	Relationship of the Paper Machine Reel to the Winding Process	TAPPI Finishing and Converting Conf. Proc., 1993	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5578&DID=523481	We will also show the importance of winding quality reels of paper with the same tools that are used on today's modern finish winders	conference	TAPPI	Beloit					
5885	o	history;Beloit;machine_builder;engineering	01-Sep-08	240	Bagnato, Louis J.	Sacrificial Lamb - The Beloit Corporation Story: The ExBeloit Book	TAPPI PRESS and U Build a Book	10	http://www.tappi.org/s_tappi/docbookstore.asp?CID=9039&DID=558212	Luigi Bagnato brings this story to life in Sacrificial Lamb, The Beloit Corporation Story, a collection of articles, photo essays, images and graphics, highlighting the history of Beloit Corporation from 1848 to the present	book	TAPPI	Beloit					
236		automation;safety;slitter;time cycle	11-Oct-81	7	Bagnato, Louis J. and Moritake, Takayoshi	Automatic Systems for Winders	TAPPI Finishing and Converting Conf. Proc., 1981				conference	TAPPI	Beloit					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
237		balance	01-Jun-81		Bailey, B.W.	Roll Balancing Using a Microprocessor	Pulp & Paper Canada, pp T193-T195, Jun 1981				magazine	Pulp and Paper Canada						
3238	o	winder;turret;transfer	24-Oct-04		Bailey, Charles	Scrapless Winding - Unique Winding System for Continuous Nip and No-Fold Back Transfers of Films	AIMCAL Fall Tech Conf, Charleston, October 24-27, 2004					AIMCAL	Faustel					
3201	o	winding	25-Oct-04	1	Bailey, Charles	Scrapless Winding	AIMCAL Fall Tech Conf, Charleston SC, Oct 24-27, 2004					AIMCAL	Black Clawson					
238			01-Apr-87	2	Bak, David J.	Dancer Arm Feeback Regulates Tension Control	Design News, vol 43, no 6, pp 132-133, Apr 1987											
6118		lateral;steer;guide;rubber;cover;nip;roller	01-Jan-05		Balaiyan, K.	Lateral Steering of the Web in a Differentially Loaded Nip of Rubber Covered Rollers	MS Thesis, WHRC, OK State Univ, 2005				thesis	WHRC	WHRC					
3312	o	wit;nonwoven;model	05-Jun-05	10	Balaji, K.K and Good, James K.	Wound-on-Tension in a Non-woven Web	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC	WHRC					
6057	o	caliper;measurement	13-Jun-11		Balent, A.	Measurement Techniques and Sensors	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15				conference	WHRC	AIS Gauging					
239		web handling;process;control	01-Feb-78		Balkowski, W. L.	New Technique for Model Reference Control of a Paper Machine												

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
240		core;vibration;model;measure	01-Jan-89		Bank, L.C. and Gerhardt, T.D. and Gordis, J.H.	Dynamic Mechanical Properties of Sprally Wound Paper Tubes	ASME J. of Vibration, Acoustics, STress and Reliability in Design, 111:489, 1989											
241	o	core;modulus;measure	01-Jan-92		Bank, L.C., and Cofie, E. and Gerhardt, Terry D.	A New Test Method for the Determination of the Flexural Modulus of Spirally Wound Paper Tubes	J. of Engineering Materials and Technology, Transactions of the ASME, 114:84, 1992				magazine							
242	o	inkjet;print	15-Oct-95	4	Barghini, A.D.	Principles of Inkjet Printer Media Paths and Their Media Dependence	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 203-206, Oct 15-18, 1995	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5460&DID=521820	The media path of a printer is responsible for accurately constraining the media at the proper locations in order to achieve maximum print quality performance	conference	TAPPI						
243		steam;dry;heat_transfer;siphon	01-Oct-60	23	Barnscheidt, W. and Schadler, M.	Determining the Optimum Conditions of Condensate Removal and Power Demand	Institue of Paper Chemistry, Papier 14, no. 10A, 600-609, October 1960											
244		wrap	01-Jun-91		Barrat, B.	A Prototype Reel Wrapper for AA	Papier Carton Cellul., Jun 1991											
2749	o	six_sigma;statistic;qa;waste;delay	16-Oct-00		Barto, Harry	6 Sigma Process for Increased Efficiencies	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL						

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245	o	calender	18-Oct-92	16	Bartram, E.	Greatly Enhanced Print Quality with Mid-Machine Calendering: Why it Works	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 12-28, Oct 18-21 1992	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5630&DID=524404	The emerging hot soft nip calendering technology provides papermakers with the equipment to improve the sheet surface and strength properties by calendering at moistures up to 25%	conference	TAPPI						
246		air;float;guide	01-Jul-88	116	Basheer, Mohammad Sohail	An Experimental Study of Air Entrainment in Web Handling Applications	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						
247		tension;steel	01-Nov-87	6	Bass, G.V.	Minimum Tension Control in Finishing Train of Hot Strip Mills	Iron and Steel Engineer, pp 48-53, November 1987											
248		calender;nip;stress	01-Mar-80	5	Batra, R.C.	Rubber Covered Rolls - The Nonlinear Elastic Problem	J. of Applied Mechanics, vol 47, pp 82-86, March 1980				magazine	J Applied Mechanics						
5731		wind;chuck;torque_activated	01-Jul-92	1	Batstone, David	James River Mill Increases Core Resue with Switch to Torque-Activated Chucks	Pulp and Paper, Jul 1992	2			magazine	Pulp and Paper	Double E	WindTorqActiveChuck	WindGeneralScan	doc and pdf	24-Oct-09	
249	o	core_chuck	01-Jul-92	1	Batstone, David	Core Chuck Change	Pulp and Paper, vol 66, no 7, Jul 1992					Pulp and Paper						
251		analytical;strength;hydrogen bond;property	01-Sep-87	5	Batten, George L. Jr. and Nissan, Alfred H.	Unified Theory of the Mechanical Properties of Paper and Other	Tappi J., vol 70, no 9, pp 119-123, Sep 1987				magazine	TAPPI						
252		computer	01-Aug-80		Battershill, J. other	On-Line Computer Installations: A Survey	Pulp & Paper Canada, pp T177-T181, 52, Aug 1980				magazine	Pulp and Paper Canada						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6076		web_clean;static;contact;vacuum;tacky;brush	02-Feb-11	2	Battric, Adam	To Contact or Not?	Paper, Film & Foil Converter, vol 84, no 2, pp 42, Feb 2011	2	http://pffc-online.com/surface_prep/web_cleaning/contact-or-not-0201/	Web cleaning systems fall under two headings — noncontact and contact. Within those two groups there are a variety of offerings	magazine	Paper Film Foil Converter	Meech Static Eliminators					
253		tension;profile	01-Jan-86		Baudin, Gary A.	Analysis of Tension Applied to Paper in an Offset Rotary Press	Int. Printing & Graphic Arts Conf, 1986											
254		property			Baum, Gary A.	Paper Testing and End-Use Performance	Mtg of the Institute of Paper Chemistry, Paper #5-2						IPC					
255		property			Baum, Gary A.	Mechanical Anisotropy in Paper	Mtg. of the Institute of Paper Chemistry, Paper #5-1						IPC					
5480		material;poisson_ratio;paper;ultrasonic;measurement	01-May-79	4	Baum, Gary A. and Bornhoeft, L.R.	Estimating Poisson Ratios in Paper Using Ultrasonic Techniques	Tappi J., vol 62, no 5, pp 87-90, May 1979	4			magazine	TAPPI	IPC and US Bureau of Engraving and Printing	PoissonRatioUltrasonic	MaterialScan	doc and pdf	28-Dec-09	unusual
5481		material;modulus;poisson_ratio;paper;ultrasonic;measurement	01-Aug-81	5	Baum, Gary A. and Brennan, D.C. and Habeger, Charles C.	Orthotropic Elastic Constants of Paper	Tappi J., vol 64, no 8, pp 97-101, Aug 1981	4			magazine	TAPPI	IPC	ElasticConstantsPaper	MaterialScan	doc and pdf	28-Dec-09	unusual
258		measurement;property;measurement;stiffness;anisotropy	01-Jul-80	5	Baum, Gary A. and Habeger, Charles C.	On-line Measurement of Paper Mechanical Properties	Tappi J., vol 63, no 7, pp 63-66, Jul 1980				magazine	TAPPI	IPC					
259	c	property, modulus, poisson_ratio		9	Baum, Gary A. and Habeger, Charles C. and Fleischman, E.H.	Measurement of the Orthotropic Elastic Constants of Paper	Institute of Paper Chemistry						IPC					
260		paper;property;press;paper;stretch;strain;fiber	01-May-84	5	Baum, Gary A. and Pers, K. and Shepard, D.R. and Ave'Lallemant, T.R.	Wet Straining of Paper	Tappi J., vol 67, no 5, pp 100-104, May 1984				magazine	TAPPI	IPC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5715		wind;density;measure;design	27-Jan-89	22	Baum, Scott A	Effect of Sheet Caliper and Hardware Resoluton on Determination of Wound Roll Density	Beloit Research Report D89-001	2			report	Beloit Corp	Beloit	DensityBaumBeloitRD	WindDensityScan	doc and pdf	07-Oct-09	
5716		wind;density;measure;design	01-Jul-91	5	Baum, Scott A and Roisum, David R	Caliper effects on wound roll density	TAPPI J, vol 74, no 7, pp 123-127, July 1991	3	http://www.tappi.org/s_tappi/sec publications.asp?CID=4822&DID=514664	However, early density analyzers were found to have an undesirable sensitivity to changes in web caliper. Thus, it was not easy to determine if fluctuations in the density profile reflected changes in winding, web caliper, or both.	magazine	TAPPI	Beloit	CaliperEffectsDensity	WindDensityScan	doc and pdf	07-Oct-09	
264	o	wind;roll_structure;density;caliper;measure	06-Oct-91	10	Baum, Scott A. and Roisum, David R.	Caliper Effects on Wound Roll Density	TAPPI Finishing and Converting Conf. Proc., Houston, pp 129-138, Oct 6-10 1991	2	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=5678&DID=516351	However, early density analyzers were found to have an undesirable sensitivity to changes in web caliper. Thus, it was not easy to determine if fluctuations in the density profile reflected changes in winding, web caliper, or both.	conference	TAPPI	Beloit					
2591		slit;razor	01-Jan-91		Bax, A.J.	Characterization of razor slitting in thin sheets and membranes	MS Thesis, Univ. of Tulsa				thesis							

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2861		film;winder	26-Aug-01		Bdour, Adnan	Film Winders	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Diego, Aug 26-30, 2001	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5114&DID=512716	This paper will illustrate three types of continuous winding and inline slitting systems and discuss the various components of film winders	conference	TAPPI						
2958		film;winder	09-Sep-02		Bdour, Adnan	Film Winders	TAPPI PLACE Conf. Proc., Boston, Sept 9-12, 2002	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5090&DID=510549	This paper will illustrate three types of continuous winding and inline slitting systems and discuss the various components of film winders	conference	TAPPI						
265		static;converting;machine;control	01-Mar-72	3	Beasley, N.O.	Generation and Control of Static on Converting Machinery	Tappi J., vol 55, no 3, pp 363-365, Mar 1972				magazine	TAPPI						
266		paper;friction;nip_defect	01-Apr-94	2	Beatty, James	To slip or not to slip?	Am. Papermaker, pp 31-32, April 1994											
267	o	winding;core_crush;telescoping	01-Jun-97		Becker, B.J.	A Systems Approach to Reducing Winding Defects at Alcoa-Warrick Operations	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC						
2713		tension;brake;application;selection	01-May-00	5	Becker, Bruce	Selecting the Right Tensioning System for the Application	Paper, Film & Foil Converter, vol 74, no 5, pp 59-63, May 2000				magazine	Paper Film Foil Converter						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
268		property	01-Jan-63		Beckman, N.J.	Shear Strength in Printing Paper Measurement	TAGA Proc.											
6109		wrinkle;model	01-Oct-06		Beisel, J.A.	Single Span Web Buckling Due to Roller Imperfections in Web Process Machinery	Ph.D. Thesis, WHRC, OK State Univiersity, Oct 2006				thesis	WHRC						
3291	o	lateral;misalign	05-Jun-05	10	Beisel, J.A. and Good, James K.	Analysis of Trough Formation and Lateral Sterring of a Web Due to a Tapered Downstream Roller	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC	WHRC					
6112		wrinkle;model	01-Jan-10		Beisel, J.A. and Good, James K.	The Instability of Web in Transport	J of Applied Mechanics, ASME, vol 78, no 1, 2010				magazine	WHRC	WHRC					
270	o	smoothness;sensor	06-Oct-96	12	Belotslerkovsky, E., Chase, L. and Goss, J.	Advanced Techniques for Surface Smoothness Measurement and Control	TAPPI Finishing and Converting Conf. Proc., Bal Harbor, FL, pp 129-140, Oct 6-9, 1996	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5386&DID=521543	A brief history of traditional surface smoothness measurement and the physics behind them, leads into the discussion of a new approach	conference	TAPPI						
3215	o	air_float;dryer	25-Oct-04	1	Bemi, Dan	Drying Considerations for Coatings Applied to Thin Films	AIMCAL Fall Tech Conf, Charleston SC, Oct 24-27, 2004					AIMCAL	MEGTEC					
3445		dryer;air_float;wrinkles;guide	23-Oct-06	1	Bemi, Dan	Troubleshooting Web Handling Problems inside floatation dryers	AIMCAL Fall Tech Conf Proc, Reno, October 22-25, 2006					AIMCAL	MEGTEC					
271		wind;roll_structure;hardness	01-Aug-90		Benninger, A.G.	Benninger Durometer III Winding Hardness Tester	JTN, Aug 90											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
272		wind;roll_structure;hardness	01-Sep-90		Benninger, A.G.	Winding Hardness Tester	Chemiefasern/Textil Industrie, Sep 1990											
273		wind;model;large_deformation	01-Jan-95		Benson, Richard C.	A Nonlinear Wound Roll Model Allowing for Large Deformation	ASME J. of Applied Mechanics, vol 62, pp 853-859, Dec 1995											
2608	o	splice;camber;lateral;upset	06-Jun-99	10	Benson, Richard C.	The Influence of Web Warpage on the Lateral Dynamics of Webs	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC						
3094	o	splice;camber;lateral;upset	01-Mar-02	10	Benson, Richard C.	Lateral Dynamics of a Moving Web with Geometrical Imperfection	Transactions of the ASME, J of Dynamics Systems, Measurement and Control, pp 25-34, March 2002											
274	o	nip;wrinkle;model	06-Jun-93	12	Benson, Richard C. and Chiu, Han Chieh and LaFleche, John and Stack, Kenneth D.	Simulation of Wrinkling Patterns in Webs Due to Non-uniform Transport Conditions	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC						
275		wind;model;large_deformation	18-Jun-95	12	Benson, Richard C. and LaFleche, John and Stack, Kenneth D.	Deformation of Highly Compressed Wound Rolls	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC						
2554		temperature;measurement;control	01-Mar-99	1	Bentley, David J.	Temperature Could be the Cause of Inconsistent Runs	Paper, Film & Foil Converter, vol 73, no 3, pp 32, March 1999				magazine	Paper Film Foil Converter	Self					
2563		cof;film;friction	01-May-99	1	Bentley, David J.	Is a Good COF High or Low? - It depends on the application	Paper, Film & Foil Converter, vol 73, no 5, pp 24, May 1999				magazine	Paper Film Foil Converter	Self					
2665		md;cd;anisotropy	11-Oct-99	1	Bentley, David J.	Be Aware of MD and CD or you could loose your way	Paper, Film & Foil Converter, vol 73, no 10, pp 28, October 1999				magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2765		wind;blocking; defect;coating	01-Oct-00	1	Bentley, David J.	Common Causes of Blocking in Heat Seal Coatings - Part I	Paper, Film & Foil Converter, vol 74, no 10, pp 28, October 2000	3	http://pffc-online.com/mag/paper_common_causes_blocking/	A problem that can occur with heat seal coatings is that they can block when wound into a roll. This is essentially premature adhesion and causes the roll of heat seal coated material to form a log that cannot be unwound	magazine	Paper Film Foil Converter	Self					
2768		wind;blocking; coating;temperature;humidity	01-Nov-00	1	Bentley, David J.	Common Causes of Blocking in Heat Seal Coatings - Part II	Paper, Film & Foil Converter, vol 74, no 11, pp 18, November 2000	3	http://pffc-online.com/mag/paper_causes_blocking_heat/	Ambient conditions of temperature and humidity can play an important role in blocking of heat seal coatings.	magazine	Paper Film Foil Converter	Self					
2776		roller;impression	01-Dec-00	1	Bentley, David J.	Impression Rolls: Their Jobs and Their Maintenance	Paper, Film & Foil Converter, vol 74, no 12, pp 16, December 2000	3	http://pffc-online.com/mag/paper_impression_rolls_jobs/	The two most common uses for impression rolls are at applicator stations and at laminating stations.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2799		odor;smell;solvents	01-May-01	1	Bentley, David J.	The Sweet Smell of Success In Coatings and Adhesives	Paper, Film & Foil Converter, vol 75, no 5, pp 20, May 2001	3	http://pffc-online.com/mag/paper_sweet_smell_success/	unacceptable odor probably ranks as the third most common cause for rejections of finished products in the converting industry. Odor is somewhat subjective — what smells bad to some people may smell good to others.	magazine	Paper Film Foil Converter	Self					
2849		convert;material	01-Jun-01	1	Bentley, David J.	What is Converting	Paper, Film & Foil Converter, vol 75, no 6, pp 26, December 2001	2	http://pffc-online.com/mag/paper_converting_helps_ask/	Converting is unwinding a roll of relatively thin material, processing it in some fashion, and then rewinding it into a roll (unless it has been sheeted). Sounds very simple, but is it really all that easy?	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2910		adhesive;ink;coating;orange_peel	01-Nov-01	1	Bentley, David J.	Orange Peel in a Coating is Not Very 'Tasty'	Paper, Film & Foil Converter, vol 75, no 11, pp 18, November 2001	3	http://pffc-online.com/mag/paper_orange_peel_coating/	the appearance of certain coated products after they have been applied to a substrate and dried, if they contain water or solvents. The surface looks exactly like the uniform, dimpled outer surface of an orange.	magazine	Paper Film Foil Converter	Self					
2955		product_design;capability	01-Aug-02	1	Bentley, David J.	Knowing Your Limitations can Accentuate Your Strengths	Paper, Film & Foil Converter, vol 76, no 8, pp 16, August, 2002	2	http://pffc-online.com/mag/paper_knowing_limitations_accentuate/	Everyone has limitations of one sort or another, and converters are no exception. These limitations most frequently relate to their converting equipment.	magazine	Paper Film Foil Converter	Self					
3058		nip_impression_paper;fuji-film	01-May-03	3	Bentley, David J.	Measure Pressure with Thin Film	Paper, Film & Foil Converter, vol 77, no 5, pp 45-47, May 2003				magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3187		safety;nip	01-Jun-04	1	Bentley, David J.	Safety in Converting: Part II	Paper, Film & Foil Converter, vol 78, no 6, pp 32, June 2004	3	http://pffc-online.com/mag/paper_safety_converting_part_2/	A pinching nip is the point in a converting operation where two rotating rolls traveling in the same direction meet. The gap between the spot where these rolls come closest together is extremely small. This feature makes it extremely dangerous.	magazine	Paper Film Foil Converter	Self					
3190		safety;housekeeping	01-Jul-04	1	Bentley, David J.	Safety in Converting: Part III	Paper, Film & Foil Converter, vol 78, no 7, pp 22, July 2004	3	http://pffc-online.com/mag/paper_safety_converting_part_3/	Housekeeping at work can be a matter of life and death. Failure to maintain good housekeeping at work eventually could lead to injury or death.	magazine	Paper Film Foil Converter	Self					
3274		hot_melt;adhesive	01-Mar-05	1	Bentley, David J.	Hot Melt Adhesive Use	Paper, Film & Foil Converter, vol 79, no 3, pp 30, March 2005	2	http://pffc-online.com/mag/hotmelt_adhesive_use_0305/	Hot melt adhesive use continues to grow due to unique properties including ease of use, adhesion to a wide variety of surfaces, strength properties, aging characteristics, etc.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3329		units,testing	01-Aug-05	1	Bentley, David J.	The Terminology of Testing	Paper, Film & Foil Converter, vol 79, no 8, pp 26, Aug 2005	3	http://pffc-online.com/mag/terminology_testing_0805/	"When you can measure what you are speaking about, and express it in numbers, you know something about it: but when you cannot measure it, when you cannot express it in numbers, your knowledge is of a meager and unsatisfactory kind	magazine	Paper Film Foil Converter	Self					
3370		static_electricity	01-Feb-06	1	Bentley, David J.	What Static Can Do is Shocking	Paper, Film & Foil Converter, vol 80, no 2, pp 14, Feb 2006	2	http://pffc-online.com/mag/static_shocking_0206/	Static electricity is a common occurrence in virtually all converting operations that handle moving webs. It occurs from the friction generated by a web as it passes over surfaces designed to guide or manipulate it	magazine	Paper Film Foil Converter	Self					
3414		static_electricity	01-Jul-06	1	Bentley, David J.	Static Elimination Revisited	Paper, Film & Foil Converter, vol 80, no 7, pp 14, July 2006	2	http://pffc-online.com/mag/static_elimination_0706/	Most commonly, we see this problem in the form of charge built up on the surfaces of non-metallic rollers.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3436		safety;explosion;nip	01-Oct-06	1	Bentley, David J.	Safetyin Converting	Paper, Film & Foil Converter, vol 80, no 10, pp 20, Oct 2006	2	http://pffc-online.com/plc_probe/paper_safety_converting/	When you play with fire, you probably will be burned. Working in the various areas of the chemical industry, including packaging and converting, sometimes can be similar to playing with fire.	magazine	Paper Film Foil Converter	Self					
3473		static;safety	01-Feb-07	1	Bentley, David J.	Shocks Can be Deadly	Paper, Film & Foil Converter, vol 81, no 1, pp 16, February 2007	3	http://pffc-online.com/mag/paper_shocks_deadly/	An earlier column in this space on static elimination resulted in a response from a reader that is very illuminating. Following are summaries of the five main points from that response	magazine	Paper Film Foil Converter	Self					
276		drive;power;sizing	09-Oct-73		Bentley, J.M.	Winder Drive Power Requirements	TAPPI Engineering Conf. Proc. (Boston), pp 29-45				conference	TAPPI						
277	o	speed;measure	01-Jun-97		Bentz, A.R.	Inexpensive Multipoint Roller Speed Measurement System	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC						
278		calender;vibration;barring;math	01-Nov-79	4	Bercel, E.	Normal Modes of Vibration of a Closed-Frame Calender Stack	Tappi J., vol 62, no 11, pp 93-96, Nov 1979				magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5732		wind;productivity;time_cycle	01-Oct-84	5	Bergeron, Joseph A.	Analyzing winders: a quantitive method	Tappi J., vol 67, no 10, pp 66-70, Oct 1984	2			magazine	TAPPI	Union Camp	WindTimeCycleBagnato	WindGeneralScan	doc and pdf	24-Oct-09	
280		winder;productivity;time cycle	08-Oct-84	16	Bergeron, Joseph A.	Application of Comprehensive Winder Analysis to New or Existing	TAPPI Finishing and Converting Conf. Proc., 1984				conference	TAPPI	Union Camp					
281	c	runnability	01-Jan-72		Bergstrom, Jan	The Battle Against Web Breaks	INCA-Fiej Research Association Sem. Proc., Jan 1972						Beloit					
282		runnability	01-Jan-72		Bergstrom, Jan and King, D. L.	Web Break Study	IFRA report, Darmstadt, 1972						Beloit					
283		scan	02-Oct-95		Berkholtz, Warren	Visual Information Systems	AIMCAL 1995 Fall Tech. Conf. Proc., Atlanta, Oct 2-4, 1995					AIMCAL						
284			01-Jan-80		Bertram, N. and Eshel, A.	Recording Media Archival Attributes	RADC-TR80-123, Friffis Air Force Base, NY, 1980											
2826	o	tension;control;model	11-Jun-01	10	Bettendorf, Robert	Real Time Dynamic Simulation for Control System Software Verfication	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC	Metso					
3061	o	tension;control;model	01-Jun-03	8	Bettendorf, Robert	Real Time Dynamic Simulation of a Paper Winder	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC	Metso					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5884	o	tension;nip;measure;roller;electret	01-Jan-10	8	Bettendorf, Robert and Pitkänen, Tatu	Applications of tension and nip load profile measurement using a novel roll mounted electret film sensor	Tappi J., submitted Jan 2010	4		An intelligent roll is a mechatronic system consisting of a roll in a web handling machine that is also used as a transducer for sensing cross machine tension or linear load	word	TAPPI	Metso	TensionNipMeasureElectret	MeasureScan	doc		new sensor
5964	o	tension;nip;measure;roller;electret	01-Apr-10	8	Bettendorf, Robert and Pitkänen, Tatu	Applications of tension and nip load profile measurement using a novel roll mounted electret film sensor	TAPPI J, April 2010	5	http://www.tappi.org/Bookstore/Technical-Papers/Journal-Articles/TAPPI-JOURNAL/Archives/2010/April/Table-of-Contents/Applications-of-tension-and-nip-load-profile-measurement-usi.aspx	An intelligent roll is a mechatronic system consisting of a roll in a web handling machine that is also used as a transducer for sensing cross machine tension or linear load	word	TAPPI	Metso	TensionNipMeasureElectret	MeasureScan	doc		new sensor
5561		roller;rubber;cover;failure;maintenance;design	01-Jul-69	3	Beucker, Albert W	On-Machine Maintenance of Rubber Covered Rolls	Tappi J., vol 52, no 7, Jul 1969	4			magazine	TAPPI	Beloit	MaintenanceRubberCover	RollerScan	doc and pdf	07-Dec-09	
286		covered roller	01-Sep-86	4	Beucker, Albert W.	The Roll Cover in Modern Paper Machines	Tappi J., vol 69, no 9, pp 66-71, Sep 1986				magazine	TAPPI	Beloit					
287		roller;cover	01-Mar-91		Beucker, Albert W.	The Roll Cover in Modern Paper Machines	TAPPI Pressing and Drying Shortcours, Mar 1991					TAPPI	Beloit					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
14119	o	air_entrain;roller;permeability	07-Jun-15		Beuther, Paul D and Michal, Neil J	Impact of Web Permeability on High Speed Web Transport	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	Kimberly-Clark					
288	o	roll;wrap;automation	06-Oct-91	8	Bezigian, Thomas	Innovation for Automated Paper Mill Roll Wrap	TAPPI Finishing and Converting Conf. Proc., Houston, pp 113-120, Oct 6-10 1991	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5678&DID=516349	Many grades of fine papers must be wrapped with a moisture vapor barrier to prevent moisture loss from the paper and ensure transport protection. A new, automated roll wrapping technology	conference	TAPPI	Self					
289	o	wrap;waste;recycle	18-Oct-92	16	Bezigian, Thomas	Alternative Solutions to Landfilling Paper Mill Packaging Waste	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 197-212, Oct 18-21 1992				conference	TAPPI	Self					
290	o	cost;accounting;converting	01-Jul-94	1	Bezigian, Thomas	What Recommendations can you give with respect to costing a product	Converting Magazine, Converters Consultant, pp 20, July 1994				magazine	Converting Magazine	Self					
291		slitter;dust	01-Sep-94	1	Bezigian, Thomas	Why do we experience slitter dust, and how do we eliminate it	Converting Magazine, Converters Consultant, pp 19, September 1994				magazine	Converting Magazine	Self					
292		curl;tension;moisture	01-Jan-98	1	Bezigian, Thomas	How can I control curl during adhesive lamination?	Converting Magazine, Focus on Polymers, pp 20, January 1998				magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
293		safety	01-Mar-98	2	Bezigian, Thomas	What are the primary safety concerns in a converting operation	Converting Magazine, Extrusion Forum, pp 30-31, March 1998				magazine	Converting Magazine	Self					
5887		film;extrusion; slot_die;coating;book	01-Jan-99	240	Bezigian, Thomas	Extrusion Coating Manual, Fourth Edition	TAPPI PRESS ISBN: 0898520673	10	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=9043&DID=520914	This comprehensive volume details all aspects of extrusion coating. The book will be a valuable training tool for new employees and a useful reference for everyone involved in extrusion coating	book	TAPPI	Beloit					
2552		wind;transfer; wrinkle	01-Mar-99	1	Bezigian, Thomas	What are the primary safety concerns in a converting operation	Converting Magazine, vol 17, no 3, pp 42, March 1999				magazine	Converting Magazine	Self					
2630		vendor;supplier;selection	01-Aug-99	1	Bezigian, Thomas	What advice can you give on selecting a machine supplier	Converting Magazine, vol 17, no 8, pp 26, August 1999				magazine	Converting Magazine	Self					
10042		film;extrusion; die;maintenance,gauge_bands	01-May-14	1	Bezigian, Thomas	Processing Tips to Prevent Gauge Bands - Part 1	Paper, Film & Foil Converter, May 29, 2014	4			magazine	Paper Film Foil Converter	Self					
294		speed;sensor; sonic	01-Jun-92		Bhat, B.	Sonic Veloicty of Meltblown Nonwoven Webs	Nonwovens Research, Summer 1992											
295		AI;winder;computer;troubleshoot	01-May-88	87	Bhooshanan, Srinivas	Development of a Prototype Diagnostic Expert System for Winding	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6137		book;film;manufacture;process	01-May-00	652	Bhushan, B	Mechanics and Reliability of Flexible Magnetic Media	Springer	10	http://www.amazon.com/Mechanics-Reliability-Flexible-Magnetic-Media/dp/0387989366	Production of magnetic and optical storage systems for consumer applications (such as video tapes and audio CDs) and for data-processing applications (such as magnetic hard drives and CD-ROMs)		Springer						
296			01-Feb-78		Bialkowski, W.L.	New Technique for Model Reference Control of a Paper Machine	Pulp & Paper Canada, pp T56-T60, Feb1978				magazine	Pulp and Paper Canada						
297	o	roll;shipping	21-Sep-97	2	Billing, J.R. and Couture, J. and McAllister, S.	The North American Load Security Research Project	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 5-6, September 21-24, 1997	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5326&DID=511916	Requirements for securement of cargo on heavy trucks are set and enforced by the provinces in Canada, and the federal government and the states in the U.S. When Canada's National Safety Code standard on cargo securement was to be revised, a CCMTA	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
298	o	roll;shipping	06-Oct-96	6	Billing, J.R. et al	North American Load Security Research Project	TAPPI Finishing and Converting Conf. Proc., Bal Harbor, FL, pp 1-6, Oct 6-9, 1996	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5386&DID=521540	Requirements for securement of cargo on heavy trucks are set and enforced by the provinces in Canada, and the federal government and the states in the U.S. When Canada's National Safety Code standard on cargo securement was to be revised, a CCMTA	conference	TAPPI						
5977		book;vacume_desposition;svac	01-Jan-10	268	Bishop, Charles	Roll-to-Roll Vacuum Deposition of Barrier Coatings	ISBN: 978-0-470-87652-7, Wiley Books	5	http://www.wiley.com/WileyCDA/WileyTitle/productCd-0470876522.html	barrier testing methods and the vacuum deposition process. The book looks at the whole process from the source materials through to the post deposition handling of the coated material	book	Wiley	self					
9925		moisture;metallization	01-Feb-13	1	Bishop, Charles A	Moisture control - a vital aspect of paper metallization	Converting Quarterly, qtr 1, 2013	4			magazine	AIMCAL	self					
2990	o	web_cleaning	21-Oct-02		Bishop, Charlie	The Quest for Cleaner Polymer Web Surfaces	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
299	o	wound_roll;shipping	15-Oct-95	5	Blackman, J.N.	An Overview of the Quality Lead Team for the Prevention of Damage to Paper Products	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 24-29, Oct 15-18, 1995				conference	TAPPI						
300		wind;model;roll_structure;pressure;measure	08-Jul-88		Blaedel, Kenneth L.	Design Approach to Winding a Roll of Paper	Univ. of Wisconsin, Ph.D Thesis											
301		roller;nip;torque;steel;calculation	01-Jan-48	10	Bland, D.R. and Ford, H.	The Calculation of Roll Force and Torque in Cold Strip Rolling with Tensikons	Proc. Inst. Mech. Engr., vol 159, pp 144-153, 1948											
302		cost;quality;economic;survey	06-Oct-80		Bland, J.L.	Never-Ever Buy a New Winder	TAPPI Finishing and Converting Conf. Proc., 1980				conference	TAPPI						
303		print;roll;engrave	01-Aug-93	6	Blashe, David W.	Methods of Cylinder Engraving for Gravure Printing	Tappi J., vol 76, no 8, pp 169-174, Aug 1993				magazine	TAPPI						
304		film;corona;trea;wettability	01-Mar-95	6	Blitshteyn, Mark	Wetting Tension Measurements on Corona-Treated Polymer Films	Tappi J., vol 78, no 3, pp 128-143, March 1995.	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5533&DID=522871	The ASTM Standard Test Method D2578-84 for Wetting Tension of Polyethylene and Polypropylene Films which relies on “dyne” liquids does not meet the requirements of reproducibility and repeatability	magazine	TAPPI	Ion Systems					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5888		static;ionizer	01-Mar-95		Blitshteyn, Mark	Wetting tension measurements on corona-treated polymer films	TAPPI JOURNAL, March 1995, Vol. 78(3)	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4847&DID=518597	The ASTM Standard Test Method D2578-84, "Wetting Tension of Polyethylene and Polypropylene Films," which relies on dyne liquids, does not meet the requirements of reproducibility and repeatability	conference	TAPPI	Ion Systems					
305		static	01-Sep-97	4	Blitshteyn, Mark	Bringing Static Elimination Technology Up to Speed	Paper Film Foil Converter, pp 72, ,74, 76 & 78, September 1997				magazine	Paper Film Foil Converter	Ion Systems					
2692		static_neutralizing;smart;ac	01-Mar-00	3	Blitshteyn, Mark	Static-Neutralizing 'smartens up"	Converting Magazine, vol 18, no 3, pp 72-74, March 2000.				magazine	Converting Magazine	Ion Systems					
3028	o	static	13-Apr-03	5	Blitshteyn, Mark	Static Elimination	CEMA Coating and Laminating Seminar, Chicago, April 15, 2003				shortcourse	CEMA	Ion Systems					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3346	o	static;ionizer	26-Sep-05		Blitshteyn, Mark	Fully-Integrated Multi-Station Static Control System with Web Charge Verification	TAPPI PLACE Conf, Las Vegas, September 26, 2005	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5026&DID=526700	Static neutralizers on web coating lines have traditionally been add-on devices, installed and often forgotten until static would cause quality or safety problems. The paper describes an advanced static control system with long-range neutralizing	conference	TAPPI	Ion Systems					
2771		static, wind;unwind;rolls	01-Nov-00	5	Blitshteyn, Mark and Anderson, Michael	An Eye-Opener on Static: It Can Be Controlled on Rewinders	Paper, Film & Foil Converter, vol 74, no 11, pp 62-67, November 2000.				magazine	Paper Film Foil Converter	Ion Systems					
2734		static, wind;unwind;rolls	28-Aug-00	12	Blitshteyn, Mark and Niklarz, Rich	Static Neutralization of Rolls at Unwind and Rewind Stations	TAPPI Polymers, Laminations and Coatings Conf. Proc., pp 757-769, Chicago, Aug 28-31, 2000	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5151&DID=523234	The paper examines static electricity generation in unwind and rewind applications, including associated hazards. The variety of rewinder designs, changing roll diameters, web angles, and roll transfers	conference	TAPPI	Ion Systems					
10096		slitting;blade;diamond;sharpness;life	20-Oct-14		Bluche, Peter, Ph.D.	Diamond Blades - Exremely Wear Resistant and Extremely Sharp	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014	4			conference	AIMCAL	GFD Gesellschaftfuer Diamantprodukte					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5498		measure;basis_weight;nonwovens	01-Dec-92	7	Boeckerman, Paul A.	Meeting the Special Requirements for On-Line Basis Weight Measurement of Lightweight Nonwoven Fabrics	Tappi J., vol 75, no 12, pp 166-172, Dec 1992	3	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5636&DID=516519	This paper describes the specialized technology needed to make on-line basis weight measurements practical for the production of light weight nonwoven fabrics	magazine	TAPPI	Measurex	BWmeasureLightNonwovens	MeasurementScan	doc and pdf	23-Dec-09	
307		alignment;maintenance	01-Dec-90		Boggs, R.E.	Rotating Machine Misalignment: The Silent Disease but not the Symptom	Tappi J., vol 73, no 12, Dec 1990	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4712&DID=519253	In 1953, a major company dedicated to vibration technology initiated a program involving vibration analysis of rotating equipment. However, it was in the late 1960s and early 1970s before industry became serious about vibration problems	magazine	TAPPI						
308		unwind;brake;disk;drum;regenerative;drive;control	22-Oct-79	6	Boino, David F. and Gilmore, William J.	Unwind Brake Study Final Report on CA 10034	TAPPI Finishing and Converting Conf. Proc., 1979				conference	TAPPI	Beloit					
5753		wind;burst;crepe;articulating_rider_roller;compliant_drum	01-Oct-94	6	Boino, David F. and Lefkowitz, John J.	Effect of printer roll-quality requirements on winding technology	Tappi J., vol 77, no 10, pp 111-116, October 1994	4			magazine	TAPPI	Beloit Lenox (GLV)	WindBurstCrepeLenox	WindGeneralScan	doc and pdf	06-Nov-09	nearly unique

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1096	o	wind;soft_nip;articulating_rider_roll;defect	02-Oct-94	6	Boino, David F. and Lefkowitz, John J.	Printer Roll Quality Requirements on Winding Technology	TAPPI Finishing and Converting Conf. Proc., Chicago, pp 119-124, October2-5, 1994	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5515&DID=522848	In order to meet printer requirements with consistently high quality rolls, it is first necessary to identify all roll defects that are present in the pressroom today.	conference	TAPPI	Beloit Lenox (GLV)					
309	o	roll;handling	01-Oct-89	12	Boldrin, B.J.	Automated Material Handling Systems for Rolls and Palletized Product	TAPPI Finishing and Converting Conf. Proc., Kansas City MO, pp103-114, Oct 1-5 1989				conference	TAPPI						
2592		slit;razor	01-Jan-89	10	Bollen, D and Deneir, J. and Aernoudt E. and Muylle, W.	Shear cutting of PET Film	J of Materials Science, vol 24, pp 2957-2966, 1989.				magazine							
9876		roller;thermal;spray;coating	22-Oct-12		Bonar, John	Thermal spray Technology For The Printing & Converting Industries	AIMCAL Web Handling Conference, Myrtle Beach, Oct 22-23, 2012			Coating materials applied using these technologies can range from pure metals to alloys to carbides to ceramics. Coating properties can be tailored to the applications to provide grip, smoothness, self release	conference	AIMCAL	Materials & Process Technology				27-Jul-12	
310		roll structure;hardness;	31-Jan-78		Bonazza, Loy	Automatic Reel Hardness Control With the Backtender's Friend	CPPA Annual Mtg. (Montreal) Preprints 64B, pp 155-160				conference	CPPA	Ontario Paper					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5794		wind;roll;hardness;measure;backtenders_friend	01-Jul-79	3	Bonazza, Loy	Automatic reel hardness control with the Backtender's Friend	Pulp and Paper Canada, vol 80, no 7, pp 33-36, July 1979	3			magazine	Pulp and Paper Canada	Ontario Paper	RollHardnessBacktenderBonazza	WindMeasureScan	doc and pdf	22-Sep-09	
312		test;laser	01-Jul-84		Bonlay, R. and Drouin, B. and Gagnon, R. and Izatt, J.R.	Newsprint Moisture and Basis Weight Measurement Using a Submill	J. of Pulp and Paper Science, p J98-J102, Jul 1984				magazine	J Pulp & Paper Science						
6070		paper;print;strain;registration			Bonrath, Herbert and Wolf, Rudolph	Paper as a Printing Material in Web Printing Machines - Experience and Comments	Apr IPEX Issue	2			magazine	APEX						
313		coat;book	01-Jan-70		Booth, G.L.	Coating Equipment and Processes	Lockwood, NY, 1970	10			Book							
314		core;cutting;handling;automation	16-Oct-83	7	Boqvist, Ingvar	Paper Cores Cut and Handles Setwise for Streamline Operation to	TAPPI Finishing and Converting Conf. Proc., 1983				conference	TAPPI						
315		roller;grind;balance	11-Oct-81	6	Borbas, James and Constello, Donald	Roll Grinding Technology for the Paper Industry	TAPPI Finishing and Converting Conf. Proc., 1981				conference	TAPPI						
316		paper;property;morphology;reflectance;fiber;optical;property;dy	01-Oct-76		Borch, J. and Scallan, A.M.	An Interpretation of Paper Reflectance Based on Morphology	Tappi J., vol 59, no 10, pp 102-104, Oct 1976				magazine	TAPPI						
5684		roller;vibration;balance;testing	17-May-93	12	Borhaug, Jan E	Vibration Testing and Analysis of Paper Machine Press Sections and Dynamic Balancing by Impact Method	Beloit internal report	4			brochure	Pretech	Pretech Incorporated	PretechDynamicVibrationTesting	VibrationScan	doc and pdf	01-Oct-09	
317		vibration;maintenance;troubleshoot	01-May-73		Borhaug, Jan E. and Hanna, A.J.	Vibration of Signature Analysis - Application to Onstream Diagnosis of Paper mill Machinery	Pulp and Paper Industry Maintenance and Engineering Conf. Proc, Wester International Meeting, May 1973				magazine	Pulp and Paper Canada						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2656	o	reel;optimization;size;diameter;waste	03-Oct-99	14	Borthwick, Kevin and Dapcevic, Dusan	Paper Machine Reel Optimization - Analysis and a Case Study	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 197-210, October 3-7, 1999	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5187&DID=508492	The impact of modern digital control systems on the Reel Optimization process is discussed.	conference	TAPPI						
5677		tension;drive;two-drum;winder;program	01-Oct-99	10	Borthwick, Kevin and Dapcevic, Dusan and Fransan, Philip	Structuring of Winder Drive Software - Review of Basic Building Blocks	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 91-112, October 3-7, 1999	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5187&DID=508201	Basic software building blocks for programmable digital Winder DC or AC drives are discussed. Winding mechanics and roll quality are analyzed to support the structuring of two-drum Winder control softwa	conference	TAPPI	TAPPI	WinderDriveSoftware	TensionScan	doc and pdf	28-Dec-09	
2602	o	tension;fluting;wrinkle;heat	06-Jun-99	12	Bosse, R.	Permanenet Out-of-Plane Distortions of Paper Printed in Heat-Set Web Offset	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2919	o	roller;inspection;maintenance	02-Dec-01	10	Botten, Stanley F.	Application Report: Acoustic Emission Testing of Suction Rolls	TAPPI Engineering and Finishing and Converting Conf. Proc., San Antonio, December 2-6, 2001	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5098&DID=524943	To investigate alternative NDT methods that would be more practical and yet sensitive enough to detect the small cracks in suction rolls. The author assisted this task group in evaluating acoustic emission testing (AET) for this purpose.	conference	TAPPI						
318	o	tension;control	01-Jun-97		Boulter, B.T.	The Effect of Speed Loop Bandwiths and Linespeed on System Eigenvalvalues in Multi-Span Web Transport Systems	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC						
2584	o	drive;model	06-Jun-99	16	Boulter, B.T.	Estimating Modulus of Elasticity, Torque Loss and Tension Using an Extended Kalman Filter	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC						
319	o	tension;control	18-Jun-95	10	Boulter, B.T. and Gao, Z.	Matrix Interpolation Based Self-Tuning Web Tension Regulation	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
320	o	wind;air_entrain;model	06-Jun-93	18	Bouquerel, F and Bourgin, P.	Irreversible Reduction of Foil Tension due to Aerodynamical Effects	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC						
321	o	air_entrainment	01-Jun-97		Bourgin, Patrick	Keynote Presentation - Air Entertainment in Web Handeling: to be Avoided or Mastered	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC						
322		wind;film;model	08-Nov-83		Bourgin, Patrick and Bouquerel F.	Winding Flexible Media: a Global Approach	ASME Winter Annual Mtg., Anaheim, Nov 8-13 1992											
2817	o	wind;model;control	11-Jun-01	10	Bourgin, Patrick and Boutaous, M. and Knittel, D.	Online Control of Tension in Web Winding Systems based on Wound Roll Internal Stress Computation	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC						
323	o	calender;steam	01-Oct-89	7	Bourque, J.A.	Recent Advances in the Application of Steam in the Finishing of Paper	TAPPI Finishing and Converting Conf. Proc., Kansas City MO, pp 61-66, Oct 1-5 1989				conference	TAPPI						
3493	o	Winding:model	10-Jun-07	8	Boutaous, M and Knittel, D and Bourgin, P	Gauge Optimization of the Reference Tension in Winding Sytms Using Wound Internal Sresses Calculation	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
324	o	air_entrainment	01-Jun-97		Boutaous, M. and Bourgin, P.	Experimental Study of Squeeze Film Flow between One Smooth Surface and One Rough Surface	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC						
2601	o	surface;roughness;measurement	06-Jun-99	14	Boutaous, M. and Bourgin, P.	A New Parameter for Dynamic Characterization of PET Film Surface Topography	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC						
9862		drive;control;model	14-Jun-12		Boutaous, Mohamed and Bourgin, Patrick and Knittel, Dominique	Robust Reference Tension Optimization in Winding Systems using Wound Internal Stress Calculations	AIMCAL Web Handling Conference, Prague, Jun 14-15, 2012	2			conference	AIMCAL					27-Jul-12	
325		air_float	01-Oct-91		Bowden, E.	Paper Conversion under Clean Room Conditions	Pap. Kunstst. Verab., vol 26, no 10, Oct 1991											
5562		roller;thermal;spray;corrosion;failure;maintenance;design;troubleshoot	01-Aug-94	8	Bowers, David F	Thermal Spray Coatings on Yankee Dryers	Tappi J., vol 77, no 8, pp 227-234, Aug 1994	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4797&DID=520637	Several failure investigations and recent research on thermal spray coatings on Yankee dryer surfaces show at least three modes of environmentally induced degradation	magazine	TAPPI	Packer Engineering	ThermalSprayCoating Yankee	RollerScan	doc and pdf	07-Dec-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5889		roller;thermal;spray;corrosion;failure;maintenance;design;troubleshoot;calender	01-Oct-95		Bowers, David F	Thermal spray coatings reduce wear and corrosion on calender rolls	TAPPI JOURNAL, October 1995, Vol. 78(10)	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4852&DID=518382	Thermal spray coatings resist surface degradation on calender rolls and therefore provide improved, more consistent paper quality.	magazine	TAPPI	Packer Engineering	ThermalSprayCoating Yankee	RollerScan	doc and pdf	07-Dec-09	
2883		roller_cover;composite;technology;life	01-Oct-01	4	Bowman, Scott	Maximizing Roll Cover Performance	Pulp & Paper, vol 75, no 10, pp 35-, October 2001.				magazine	Pulp and Paper						
327		film;treat;surface_energy;dyne	01-Sep-96	3	Boyle, Edward	Taking the Measure of Surface Treatments is a Learning Process	Paper Film Foil Converter, vol 70, no 9, pp 52-54, September 1996				magazine	Paper Film Foil Converter						
2671		pilot;lab;facility	01-Nov-99	5	Boyle, Edward	Need to test a product, we got just the place.	Paper Film Foil Converter, vol 73, no 11, pp 54-67, November 1999				magazine	Paper Film Foil Converter						
3333		thin;gage;design	01-Sep-05	2	Boyle, Edward	Without Boundaries - Lamart … ultra-lightweight laminate	Paper, Film & Foil Converter, vol 79, no 9, pp 48-50, Sept 2005	2	http://pffc-online.com/mag/without_boundaries_0905/	Philip Faria, manager of process engineering, and Lee Smith, project manager, recalled the philosophy of company founder Walter Hirsh: “To be truly successful,	magazine	Paper Film Foil Converter						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3490		training;list	01-Jun-07	2	Boyle, Edward	Knowledge = power= success	Paper, Film & Foil Converter, vol 81, no 6, pp 45-46, June 2007	3	http://pffc-online.com/mag/paper_knowledge_power_success/	Training. It's as essential to the growth and vitality of a converting operation as air and water are to all living things. Many companies have in-depth, internal training programs, complete with training directors	magazine	Paper Film Foil Converter						
3677		static	01-Oct-08	2	Boyle, Edward	String is Clean	Paper, Film & Foil Converter, vol 82, no 10, pp 48-49, Oct 2008	2	http://pffc-online.com/surface_prep/static_elimination/string_clean_1008/	Static has been an ever-present problem for converters across virtually all market segments since the invention of the high-speed web press. But depending on the substrate and web speed	magazine	Paper Film Foil Converter						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3761		wind;web_handle;contract;test;pilot;lab	01-Nov-09	3	Boyle, Edward	Engineer's Playground	Paper, Film & Foil Converter, vol 83, no 11, pp 25-27, Nov 2009	3	http://pffc-online.com/coat_lam/main/paper-engineers-playground-1109/	Timothy Walker has this to say about Optimation Technology's pilot lab facility: “There are no equivalent options that combine equipment, human, and IP [intellectual property] resources for web handling development work	magazine	Paper Film Foil Converter						
328		calender;bar	01-May-98	7	Bradford, R.A. and Emmanuel, A.	Calender Vibration behavior at a Large Newsprint Machine	Appita, vol 41, no 3, pp 224-230, May 1988				magazine	APPITA						
329		print;convert;machine;survey	01-Jan-87		Bradley, R.O.	South Korea: A Report on the Market for Printing and Converting Machinery and Supplies.	BFPMS, 1987											
9976		thesis	01-Jan-07		Brake, MRW	Lateral Vibration of Moving Media with Frictional Contact and Nonlinear Guides	PhD Thesis, Carnegie Mellon Univ, 2007				thesis	Carnegie Mellon	self					
9814		adhesive	10-Jun-12		Brambilla, Pierangelo	Low-Monomer, Fast-Bond Adhesives	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	DOW Chemical					
6041	o	tension;model;roller;runout	13-Jun-11	15	Branca, C. and Pagilla, P. and Reid, Karl	Web Tension Behavior in the Presence of Eccentric Rollers; Modeling and Validation	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15				conference	WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3712	o	tension;model	07-Jun-09	20	Branca, C. and Pagilla, P.R. and Reid, K.N.	Modeling and Identification of the Source of Oscillations in Web Tension	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC						
3716	o	tension;roll;out-of-round	07-Jun-09	12	Branca, C. and Pagilla, P.R. and Reid, K.N.	Computation of Span Length Variations due to Out-of-round Material Rolls	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC						
9967	o	tension;control;model;out-of-round	02-Jun-13	17	Branca, Carlo and Pagilla, Prabhakar and Reid, Karl N	Adaptive feedforward based control strategy for attenuation of periodic tension oscillations in roll-to-roll manufacturing	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	4			conference	WHRC	WHRC					
9989		tension;control;model	01-Jan-13		Branca, Carlo and Pagilla, Prabhakar R and Reid, Karl N	Governing Equations for Web Tension and Web Veolocity in the Presence of Noideal Rollers	ASME J Dynamic Systems Measurement and Control, vol 135, pp 01018, 2013	3			journal	ASME						
9970	o	tension;control;model	02-Jun-13	19	Branca, Carlo and Pagilla, Prabhakar R and Reid, Karl N	On the governing equations for web tension with out-of round rolls	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	3			conference	WHRC	WHRC					
330		dynamic;*		22	Brandenburg, G.		Regelungstechnik und Proze - Datenverarbeitung, Zeitschrift fur											
6093		tension;control;dynamics	01-Sep-72	14	Brandenburg, G.	The Dynamics of Elastic Webs Threading a System of Rollers	Newspaper Techniques, pp 12-25, Sep 1972						Technishe Universitat					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6111		tension;model	01-Sep-72	14	Brandenburg, G.	The Dynamics of Elastic Webs Threading a System of Rollers	Newspaper Techniques, pp 12-25, September 1972						Technishe Universitat					
6089		tension;model; printing;registration	01-Jan-76	28	Brandenburg, G.	New Mathematical Models for Web Tension and Register Error	Proc 3 Int IFAC Conf on Instrumentation and Automation in the Paper, Rubber and Plastics Industries, PRP 3 1976, pp 411-438				conference		Technishe Universitat					
331		tension;model	24-May-76		Brandenburg, G.	New Mathematical Models for Web Tension and Register Error	Proc 3rd International IFAC Conf on Instrumentation and Automation in the Paper, Rubber and Plastics Industries, vol 1, Brussels, may 24-26 1976											
332		tension;control;tension;angle;position;speed;density; cross-sec	01-Jan-77	27	Brandenburg, G.	New Mathematical Models for Web Tension and Register Error	Proceedings 2, 3rd International IFAC Conference on Instrumentation (3rd) Proc.											
6088		tension;model; rotary_printing_press	01-Jan-99	6	Brandenburg, G.	Multi-Motor Electroni Line Shafts for Rotary Offset Printing Presses - A Revolution in Printing Machine Techniques	IEEE/ASME Transactions on Mechatronics, Vol 4, No 1, 199, pp 25-31				conference		Technishe Universitat					
6090		tension;model; rotary_printing_press	01-Jan-11		Brandenburg, G.	New Mathematical Models and Control Strategies for Rotary Printing Presses and Related Web Handling Systems	Trans IFAC World Congress, Milano, 2011				conference		Technishe Universitat					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6040	o	tension;model;rotary_printing_press	13-Jun-11	43	Brandenburg, G.	Advanced Process Models and Control Strategies for Rotary Printing Presse	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15				conference	WHRC	Technishe Universitat					
5516		slitter;dust_removal	01-Oct-92	3	Brandt, Eckhard and Herrig, Friedheim, and Krolle, Arne and Ramcke, Bernd	Controlling Dust on the Sheet	PIMA Magazine, pp 49-51, Oct 1992	3			magazine	PIMA	ECH Will Gmbh	Controlling DustSheet	MiscScan	doc and pdf	23-Dec-09	unusual topic
334		handling;ionomers;trim;winding;air knives;wrinkle;	01-Apr-76	4	Brebner, Donald	Handling Techniques for Ionomer Film	Tappi J., vol 69, no 4, pp 118-121, Apr 1976				magazine	TAPPI						
335	o	calender;soft	07-Oct-90	8	Bresser, H.	What is the Soft Compact Calender Able to Do and How Can it Best be used in the Field	TAPPI Finishing and Converting Conf. Proc., Lake Buena Vista FL, pp 159-166, Oct 7-10 1990	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5730&DID=515331	In earlier days he finished it with a calender, either a machine calender or a supercalender. This is still done successfully today	conference	TAPPI						
336		calender	01-May-90		Bresser, H. and Kayser, F.	SNC the Supercalender of the 90's	Papierfabr., May 1990											
337	o	calender;recycle	18-Oct-92	12	Bresser, H. and Schmitz, C.W.	Responding to the Challeng to Recycle Paper - Calendering Recycled Paper Grades	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 1-12, Oct 18-21 1992				conference	TAPPI						
5482		material;paper;creep;humidity	01-Feb-56	16	Brezinski, J.P.	Creep Properties of Paper	Tappi J., vol 39, no 2, pp 116-128, Feb 1956	4			magazine	TAPPI	IPC	CreepPropertiesPaper	MaterialScan	doc and pdf	29-Dec-09	unusual
5483		material;paper;creep;humidity	02-Aug-82	1	Brezinski, J.P. and Hardacker, K.W.	Poisson Ratio Values	Tappi J., vol 65, no 8, pp 114-116, Aug 1982	2			magazine	TAPPI	IPC	PoissonRatioValues	MaterialScan	doc and pdf	29-Dec-09	unusual

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3566	o	air-float;dryer;vibration	06-May-08	1	Bria, Michael P.	Web Vibration in Flotation Dryer	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	MEGTEC					
340		polypropylene;corona discharge;x-ray;polymer;adhesion;print	15-Jun-88	6	Briggs, D. and Kendall, C.R. and Blythe, A.R. and Wootton, A.B.	Electrical Discharge Treatment of Polypropylene Film												
341		coat;powder	01-Mar-78		Bright, A.W.	Plant and Equipment for the application of powder coatings	Powder Coatings, 1(3):3-16, 1978											
5678		tension_control;drive;AC_motormethodology	01-Apr-93	13	Brink, Kenneth D. & Van Lieshout, Robert F.	Application and Selection Guidelines for AC System Drives	Tappi J., vol 76, no 4, pp 143-155, Apr 1993	3			magazine	TAPPI	ABB Drives	GuidelineACdrives	TensionScan	doc and pdf	23-Dec-09	
5563		roller;rubber;nip;pressure;measurement	01-Jan-63	16	Brink, Robert	Instrumentation for Roll Nip Studies	TAGA Proc., pp 103-117, 1963	2			magazine	TAGA		InstrumentRubberRollerNip	RollerScan	doc and pdf	07-Dec-09	
5602		runnability;paper;web_break;fracture;flaw	01-Feb-63	6	Broadway, J.D. and Murray, F.E. and Cote, L. and Gray, J.T.	The Influence of Flaws on Tensile Strength of Newsprint Webs	Pulp and Paper Magazine Canada, vol 64, no 2c, 1963	3			magazine	Pulp and Paper Canada	Consolidated Paper	FlawsTensileStrength News	Runnability Scan	doc and pdf	30-Dec-09	
6072		tension;control	01-Feb-11	3	Brockelbank, Douglas	How to achieve accurate, consistent tension control in roll-to-roll processes using closed-loop systems	Converting Quarterly, AIMCAL, pp 60-62, Feb 2011	2	http://www.mydigitalpublication.com/publication/?i=61538	closed-loop tension dancer	magazine	AIMCAL	Montalvo					
6028	o	tension;control;dancer	01-Feb-11	3	Brockelbank, Douglas	How to achieve accurate, consistent tension control in roll-to-roll processes using closed-loop systems	Converting Quarterly, AIMCAL, pp 60-62, Feb 2011	1		dancers closed-loop tension better than manual operator settings	magazine	AIMCAL	Montalvo					
345		reel	01-Mar-91		Brouard, C.	Mill Experiences with a Beloit Reel Cutter with Central Winding	Wochenbl. Papierfabr., Mar 1991											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
346	o	calender;roller	24-Oct-93	15	Brouard, C. and Norman, J.C. and Schut, T.	Meta-Aramid Paper for Filled Calender Rolls	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 22-24, Oct 24-27 1993	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5578&DID=523480	Meta-aramid paper provides a number of properties that enhance performance in on-line and supercalender applications. A major French specialty paper company has used meta-aramid paper in filled rolls for a variety of positions and applications	conference	TAPPI						
347		material;property;paper;friction	01-Nov-52		Broughton, G. and Gregg, J.L.	Some observations on the kinetic coefficient of friction of paper	Tappi J., vol 35, no 11, 489, 1952.				magazine	TAPPI						
348		nonwoven;friction	01-Feb-95	5	Broughton, R.M. and El Mogahzy, Y.E.	The Measurement of Fiber Friction and its Importance in Manufacturing Cotton Nonwovens	Tappi J., vol 76, no 2, pp 178-182, February 1993	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5636&DID=516547	Historically, the cotton industry has done little or no development in the area of fiber finishes, assuming that the "natural" finish was sufficient. Bleached and scoured cotton fiber, however, presents difficulties in subsequent processing into nonwovens	magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9871		roller;traction	22-Oct-12		Brown, Jerry L.	Getting and Losing Traction	AIMCAL Web Handling Conference, Myrtle Beach, Oct 22-23, 2012	5		grooving patterns that are used to solve one of the most challenging traction issues - the effect of air entrainment (also called air lubrication and air floatation). Several of the most popular patterns are evaluated, using laser sensors	conference	AIMCAL	self	TractionGetLoseBrown	RollerScan	pdf	27-Jul-12	
10090		guide;pivot;design;model	20-Oct-14		Brown, Jerry L.	Controlling Web Position with an End-Pivoted Roller	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014	4			conference	AIMCAL	self					
14130	o	lateral;dyanamics;guide	07-Jun-15		Brown, Jerry L.	A Comparison of Multi-Span Lateral Dynamics Models	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	university					
14123	o	lateral;dyanamics;guide	07-Jun-15		Brown, Jerry L.	A Belated Appreciation of Lisa Sievers' Thesis	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	university					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2604	o	md;wave;propagation	06-Jun-99	18	Brown, Jerry L.	Propagation of Longitudinal Tension in a Slender Moving Web	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC	Self					
3289	o	lateral;model	05-Jun-05	10	Brown, Jerry L.	A New Method for Analyzing the Deformation and Lateral Translation of a Moving Web	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC	Self					
3290	o	concave;bow;spread;camber	05-Jun-05	10	Brown, Jerry L.	Effects of Concave Rollers, Curved-Axis Rollers and Web Camber of the Deformation and Translation of a Moving Web	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC	Self					
3409	o	web_handling;model;spread;steer;wrinkle	07-May-06	1	Brown, Jerry L.	Seeing the invisible: the deformations and stresses that move webs	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Self					
3515	o	web;twisting	10-Jun-07	8	Brown, Jerry L.	Behavior of a Thin Flexible Twisted Web	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC	Self					
3576	o	web_handling;model;spreader	06-May-08	1	Brown, Jerry L.	What FEA Analysis Can Tell Us About Spreaders	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	Self					
3565	o	wrinkle;model	06-May-08	1	Brown, Jerry L.	Anatomy of a Wrinkle	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3728	o	roller;normal_entry	07-Jun-09	18	Brown, Jerry L.	Two-Dimensional Behavior of a Thin Web on a Roller	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009				conference	WHRC	Self					
5857	o	spread;dbar;model;stress	20-Jan-10	9	Brown, Jerry L.	Notes on D-bars	email from author to DRR				report	author	Self		SpreadWrinkleScan	pdf	20-Jan-10	
5954	o	roller;concave;spreader;taping	18-May-10	1	Brown, Jerry L.	Taping Rollers for Traction and Spreading	Applied Web Handling Conf, AIMCAL AWEB, Rochester, May 17-20	4	http://www.aimcal.org/association/aweb10/abstracts.asp?RECORD_KEY=filename&filename=brown1	Taping rollers to eliminate wrinkles is common practice in web processing. Two patterns are often seen - circumferential collars near the edges and lateral chevrons	conference	AIMCAL	self	AWEB/AWEB10	AWEB2010	pdf	04-Jun-10	
5956	o	d-bar;spreader;measure	18-May-10	1	Brown, Jerry L.	Is There Any Science for D-bars and Bent Pipes? Jerry Brown	Applied Web Handling Conf, AIMCAL AWEB, Rochester, May 17-20	4	http://www.aimcal.org/association/aweb10/abstracts.asp?RECORD_KEY=filename&filename=brown2	Do D-bars really spread webs? - Can they produce positive CD spreading stress? - Do they indirectly reduce wrinkles by suppressing troughs?	conference	AIMCAL	self	AWEB/AWEB10	AWEB2010	pdf	04-Jun-10	
6051	o	lateral;guide;model	13-Jun-11	23	Brown, Jerry L.	The Use of Conservation of Mass in Modeling Lateral Behavior in Moving Webs	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15	4			conference	WHRC	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6110		roller;wrinkle; model;elasticity	13-Jun-11	16	Brown, Jerry L.	Two-Dimensional Behavior of a Thin Web on a Roller	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15	4			conference	WHRC	self					
349		calender	01-Jan-92		Brown, M.S.	New Dimensions in Calendering	Paper Carton Cellulose, Jan 1992											
350	o	QA	04-Oct-98	10	Brown, Maurice and Simmons, Scott	An Employee Driven Approach to Quality Improvement	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 143-152, October 4-8, 1998				conference	TAPPI						
352		convert;tissue	01-Oct-91		Brown, Sterling R.	Overview of Tissue Finishing and Converting	Tappi J., vol 74, no 10, Oct 1991	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4825&DID=519330	Toilet paper in roll form was introduced in 1871. In 1879, T. Seymour Scott & Bros. reorganized as the Scott Paper Co. Ltd., specializing in marketing toilet paper. Scott Paper produced the first paper towel in 1907.	magazine	TAPPI						
351	o	teams	24-Oct-93	2	Brown, Sterling R.	Self-Directed Work Teams - Award Winning Program by Federal Express	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 217-218, Oct 24-27 1993				conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5733		wind;uwind;critical_speed;resonance;vibration;calculation;measure	01-Oct-92	7	Brown, William R.	Behavior of steel core in the unwinding process	Tappi J, pp 184-189, Oct 1992	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4808&DID=520322	The author tested steel cores containing various amounts of paper and different chuck pressures. Results correlated to an analytical model using the finite element method of analysis	magazine	TAPPI	Self	CoreCriticalSpeed	WindGeneralScan	doc and pdf	24-Oct-09	
354	o	calender;nip;strain;empirical;model	01-Sep-94	6	Browne, T.C. and Crotogino, R.H. and Douglas, W.J.M.	Measurement of Paper Strain in the Nip of an Experimental Calender	J. of Pulp and Paper Science, vol 20, no 9, pp J266-J271, September 1994				magazine	J Pulp and Paper ScienceJ Pulp and Paper Science						
3299	o	tension;control;model	05-Jun-05	10	Bruckner, Oedl	Tension Control in Thin Film Productions Lines	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC						
3388	o	nip;roller;pressure	07-May-06	1	Bryant, David	Embedded pressure sensors for rubber nip rollers	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Stowe-Woodward					
355	c	rubber;cover;roll;nip;calculation;design	01-Jul-69	7	Bucker, Albert W.	On-Machine Maintenance of Rubber Covered Rolls	Tappi J., vol 52, no 7, pp 1283-1289, July 1969				magazine	TAPPI						
9931		roller,surface,defect;video	01-May-13		Bulnes, F.G. and Usamentiaga, R. and Garcia, D.F and Molleda, J. and Rendueles, J.L.	Periodic defects in steel strips: detection through a vision-based system	IEE Explore	4			magazine	IEEE	Univ of Oviedo, Spanin					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
356		quality;test;iso 9000	01-Feb-93	4	Burchell, Robert C. and Luke, Persis D.	Westvaco ISO 9002 Certification: Why and How	Tappi J., vol 76, no 2, pp 87-91, Feb 1993	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5630&DID=524431	IS0 certification is a complex process requiring elaborate preparation, from choosing a registrar and educating corporate personnel to organizing internal IS0 teams, performing self-help au	magazine	TAPPI						
5603		runnability;paper;web_break;humidity;printing_press	01-May-90	2	Bureau, William	Roll Runnability	Graphic Arts Monthly, May 1990	2			magazine	Graphic Arts Monthly		RollRunnability	RunnabilityScan	doc and pdf	30-Dec-09	
358			01-Jan-72	10	Burgeson, R.E. and Crawford, M.E.	Modern Methods of Torque Control on Two Drum Winders	IEEE Pulp and Paper Industry Conferences, pp 50, 1972											
360		drum;torque;drive;roll structure	01-Sep-72	3	Burgeson, R.E. other	Torque Control Methods for Two Drum Winders	Pulp & Paper, vol 46, no 10, pp 93-95				magazine	Pulp and Paper						
361		tension;control;quality	01-Sep-91		Burlefinger, R.	Quality Improvement by Optimum Web Tension Control	Textil Praxis International, vol 46, no 9, 1991											
362	o	zd;air;flutter	01-Jan-93	14	Burleigh, Darrel	An Analytical Investigation of Web Flutter	OK. State Univ., WHRC,Internal Report, Jan 1993				report	WHRC						
5795		wind;roll;hardness;measure;rhometer	01-Jul-79	1	Burns, John W.	The Rho hardness meter	Tappi J, vol 61. no 1, pp 91, Jan 1978	3			magazine	TAPPI	St Regis Paper	RhoHardnessBurns	WindMeasureScan	doc and pdf	22-Sep-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5814		wind;stress;model	01-Jul-99	4	Burns, S.J. and Meehan R.R. and Lambropoulos, J.C.	Strain Based Formulas for Stresses in Profiled Center-Wound Rolls	Tappi J., vol 82, no 7, pp 159-167, July 1999	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4861&DID=519067	A new solution to the problem of modeling elastic stresses in center-wound rolls is proposed. Its premise is that residual strains from the web relax to create stresses within the roll	magazine	TAPPI	Professor	StrainBasedFormulasCenterWound	WindModelScan	doc and pdf	27-Nov-09	
365		defect;hole;video;inspection	01-Oct-96	2	Busch, Nick and Bailey, Ray	On-Line Web Inspection System Delivers a Hole-in-One Solution	American Papermaker, pp 30-31, October 1996				magazine	American Papermaker						
3340	o	roller;alignment	26-Sep-05		Busch, Sebastian	Inertial Measurement of Roller Parallelism A new approach to solving an old Problem	TAPPI PLACE Conf, Las Vegas, September 26, 2005	3	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=5026&DID=526502	a given product quality or process quality issue can be traced back to roll misalignment. This is because traditional methods of aligning rolls depend on line of sight and a certain degree of proximity between rolls	conference	TAPPI	Pruftechnick Services					
366	o	wind	16-Mar-87	2	Buskhe, D.	Considerations Regarding Stora Kvarnsveden's New Winders	Winding Technology Conf. Proc., Swedish Newsprint Research Center (TFL), Stockholm, Mar 16-171986				conference	STFL						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3752		wind;level;travers;spool	01-Sep-09	2	Butler, Bruce L.	Spool Rules	Paper, Film & Foil Converter, vol 83, no 9, pp 37, Sept 2009	3	http://pffc-online.com/web_handling/winding_unwinding_rewinding/paper-spool-rules-0909/	Most narrow materials requiring exceptionally long lengths traditionally have been spooled to form a convenient package for handling, shipping, and unwinding.	magazine	Paper Film Foil Converter	Independent Machine					
367		concave;bow;dryer;fabric	01-Mar-85	2	Butler, Thomas	How Concave Rolls Can Correct Dryer Fabric Bowing	Paper Trade J., vol 169, no 3, pp 70-72, Mar 1985				magazine	Paper Trade J						
5564		roller;composite;cover;release;adhesion	01-Apr-93	8	Butterfield, William S.	Evolution of Composite Covers for Release Rolls in the Press Section	Tappi J., vol 76, no 4, pp 117-124, Apr 1993	4	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5621&DID=524383	The filler and binder components of composite covers may be selected to produce a full complement of cover hardnesses, wear resistance, surface chemistry and a broad range of other physical properties	magazine	TAPPI	Beloit	Composite CoverRelease	RollerScan	doc and pdf	07-Dec-09	unusual
369		time cycle;production	01-Apr-79	2	Byers, Dorsey	Rough Sizing Mill Equipment can be Accomplished With Easy Method	Pulp & Paper, vol 53, no 4, pp 185-186, Apr 1979				magazine	Pulp and Paper						
3169		trim_system	01-Dec-03	1	Byrd Thompson, Nsenga	Don't Ignore the Importance of your Trim Removal System	Paper, Film & Foil Converter, vol 77, no 12, pp 68, December 2003	3	http://pffc-online.com/mag/paper_dont_ignore_importance/	Conveying trim or waste in an operation typically gets less attention than is merited by its potential effect on profits.	magazine	Paper Film Foil Converter	Paper Film Foil Converter					

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3184		static_removal	01-May-04	1	Byrd Thompson, Nsenga	Zapping Static	Paper, Film & Foil Converter, vol 78, no 5, pp 52, May 2004	2	http://pffc-online.com/mag/paper_zapping_static/	Specifically during slitting, static charges can cause trim fragments and fibers to stick to films. This dirty, charged roll then can cause production slowdowns and — even worse — poor product quality	magazine	Paper Film Foil Converter	Paper Film Foil Converter					
370		paper;property;moisture;humidity;creep	01-Feb-72		Byrd, V.L.	Effect of Relative Humidity Changes During Creep on Handsheet Paper Properties	Tappi J., vol 55, no 2, Feb 1972				magazine	TAPPI						
371		paper;property;moisture;humidity;creep	01-Nov-72	2	Byrd, V.L.	Effect of Relative Humidity Changes on Compressive Creep Response of Paper	Tappi J., vol 55, no 11, pp 1612-1613, Nov 1972				magazine	TAPPI						
372		board;property;moisture;compression;creep	01-Jun-78	3	Byrd, V.L. and Koning, J.W. Jr.	Corrugated Fiberboards: Edgewise Compression Creep in Cyclic Relative Humidity Environments	Tappi J., vol 61, no 6, pp 35-37, Jun 1978				magazine	TAPPI						
373		property;shear;strength;stress;separation;test	01-May-68	4	Byrd, V.L. et al	Method for Measuring the Interlaminar Shear Properties of Paper	Tappi J., vol 58, no 5, pp 132-134, May 1968				magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
374	o	unwind;roll;core;vibration;critical_speed	18-Oct-92	14	Caccase, Vincent	Dynamic Behavior of Steel Core in the Unwinding Process	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 283-296, Oct 18-21 1992	5	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5630&DID=516952	choosing the size of core given a set of press operating parameters. Based on these results the proper core size can be chosen to avoid resonant vibrations of the roll for a given width and press operating speed	conference	TAPPI	Univ of Maine					
5685		unwind;core;vibration;critical_speed;fem;design	01-Oct-93	11	Caccese, Vincent	Dynamic behavior of steel core in the unwinding process	TAPPI J, vol 76, no 10, pp 51-61, October 1993	5			magazine	TAPPI	Univ of Maine	DynamicUnwindCore	VibrationScan	doc and pdf	01-Oct-09	
376		wind;model	01-Sep-92		Cai, Z. et al	Winding and Consolidation Analysis for Cylindrical Composite Structures	J. of Composite Materials, Sep 1992				magazine							
3437		laminate	23-Oct-06	1	Caimmi, Giancarlo	Multi-layerlamination in one pass	AIMCAL Fall Tech Conf Proc, Reno, October 22-25, 2006					AIMCAL	Normeccanica					
9891		laminate;waste	01-Apr-12	5	Caimmi, Giancarlo	Scrap prevention in laminated flexible packaging	Converting Quarterly, qtr 2, 2012	2			magazine	AIMCAL	self					
9794		model	10-Jun-12		Caimmi, Giancarlo	Coating Heads Technology: Single Roller, 5 Rollers System and almost everything in between	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Normeccanica					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9841		coat	22-Oct-12		Caimmi, Giancarlo	Coating Heads Technology: Single Roller, 5 Rollers System and almost everything in between	AIMCAL Web Coating Conference, Myrtle Beach, Oct 22-24, 2012			This paper will take care to organize by category the alternative coating head technologies, summarize advantages and disadvantages for each design while pointing at the potential performance limits for both quality and productivity	conference	AIMCAL	Nordmeccanica					
10012		laminator;coater;adhesive	01-Dec-13	4	Caimmi, Giancarlo	Three-ply lamination process in one pass using one nip and solventless adhesvie	Converting Quarterly, qtr 4, 2013	4			magazine	AIMCAL	Nordmeccanica					
10056		laminator	08-Jun-14		Caimmi, Giancarlo	Scrap Prevention in Laminated Flexible Packaging	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014	1			conference	AIMCAL	Nordmeccanica					
14103		laminate;foil;design	01-Oct-15	5	Caimmi, Giancarlo Ph.D.	Successful lamination of foil requires good machin design process know-how	Converting Quarterly, qtr 3, 2015	3			magazine	AIMCAL	Nordmeccanica					
3558	o	slitting;razor	06-May-08	1	Cain, Daniel	Taking a Look at Razor Slitting	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	Tekkote					
377		wind;filament;model	01-Dec-90		Caliuse, E.P. et al	Filament Winding Cylinders II - Validation of the Process Model	J. of Composite Materials, Dec 1990				magazine							
378		steam;dry;heat_transfer;siphon	01-Apr-66	16	Calkins, D.L.	The Effects of Siphon Location on Paper Drying	Pulp and Paper Magazine of Canada, vol 67, no 4, pp T225-T240, April 1966				magazine	Pulp and Paper Canada						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2703		tension;control	01-Apr-00	4	Campbell, John L	Understanding your tension-control options	Converting Magazine, Slitter-Rewinder supplement, pp 8-11, April 2000				magazine	Converting Magazine						
379		tension;control;load_cell;dancer	01-Oct-98	5	Campbell, John L.	Options in Web Tension Control	Package Printing & Converting, vol 15, no 10, pp 42-46, October 1998				magazine	Package Printing & Converting						
380		film;knife;slitter;	26-Sep-83		Campbell, R.D.	High Speed Film Winding and In-Line Slitting	TAPPI Paper Synthetics Conf. Proc., (Lake Buena Vista), pp 433-438				conference	TAPPI						
5565		roller;bearing;lubrication;failure;fft;troubleshoot	01-Dec-94	4	Campbell, Wolfgag S. and Lacopini, Jerry	Suction Roll Pilot Bearing Failure due to Inadequate Lubrication	Tappi J., vol 77, no 12, pp 233-236, December 1994	3	http://www.tappi.org/s_tappi/sec publications.asp?CID=4802&DID=514606	After recent replacement of a couch roll back bearing, overall vibration levels increased sharply. This rapid increase caused concern because the previous bearing gave little warning before seizing	magazine	TAPPI	Sales Technology and Gaylord Container	SuctionBearingLubrication	RollerScan	doc and pdf	07-Dec-09	
382		wind;defect;caliper;ridge;corrugation	01-Sep-90		Campos, S.	Analysis of the Main Causes of Irregular Thickness Profiles and of the Consequent Increase in Reel Defects	Papel, Sep 1990											
383		lwc;auto-slitter;	01-Mar-81	2	Canadian,	Coated Roll Quality is Improved by Installing (Vari-Roll) Single Drum Winder	Canadian Pulp & Paper Ind., vol 34, no 3, pp 45-46				magazine	Canadian Pulp & Paper Ind						
2751	o	web_clean	16-Oct-00		Cannon, Roy B.	Controlling Airborne Contamination in Production Environments	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2873		contamination; dirt	26-Aug-01		Cannon, Roy B.	Contamination Control in a Production Environment	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Diego, Aug 26-30, 2001				conference	TAPPI						
384		diecutting	01-Jul-98	3	Carey, Kevin	Making the Right Impression	Package Printing & Converting, pp 18-21, July 1998				magazine	Package Printing & Converting						
385		vacuum;drum; cool;film;wrinkle	18-Apr-98		Carletti, A. and Raugei, P	Latest Advancements in Aluminum Metallizing of Packaging and Functional Films	Soc of Vacuum Coaters, Proc, Boston, April 18-23, 1998.											
2828	o	tension;drive;dancer;load_cell;control;model	11-Jun-01	10	Carlson, Dan H.	Considerations in the Selection of a Dancer or Load Cell Based Tension Regulation	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC	3M					
3499	o	controls	10-Jun-07	8	Carlson, Dan H.	Advanced Controls for Web Handling: Ready for Production?	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC	3M					
3709	o	drive;model	07-Jun-09	20	Carlson, Dan H. and Pagilla, P.R. and Weaver, Mark D.	Modeling and Control of Web Velocity and Tension: an Industry / University Perspective on Issues of Importance	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC	3M					
386		spread;wrinkle	01-Jan-92		Carlson, Jim	Spreader Roller Advancements and Web Wrinkle Removal	Converting Technology International, 1992					Converting Magazine	American Roller					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5657		spreader;compliant_cover;rubber;groove	01-Apr-01	5	Carlson, Jim	Benefits of flexible spiral-grooved rubber rollers	Converting Magazine, vol 19, no 4, pp 114-117, April 2001	3	http://www.convertingmagazine.com/article/309540-BENEFITS_of_flexible_spiral_grooved_rubber_rollers.php	Ron P. Swanson of 3M, and published by Oklahoma State University concludes that the flexible spiral-grooved rubber roller tested is a "good, low-drag, web-spreading and anti-wrinkle device."	magazine	Converting Magazine	American Roller	FlexibleSpiralGrooveRollers	SpreadWrinkleScan	doc and pdf	23-Dec-09	
387		flutter	01-Oct-90		Carlsson, J.	Sheet Flutter - The Villain Exposed	Svensk. Papperstidn, Oct 1990				magazine							
388		curl	01-Jan-91	13	Carlsson, L.	Out-of-Plane Hygroinstability of Multi-Ply Paperboard	Fibre Scie. Tech., vol 14, pp 201-212, 1981				magazine							
389		curl	01-Jul-80	4	Carlsson, L. and Fellers, C. and Htun, M.	Curl and Two-Sidedness of Paper	Svensk Papperstidn, vol 83, no 7, pp 194-197, July 1980				magazine							
390		quality_control;statistic;testing	01-Jan-95	4	Carlsson, Olle and Rydin, Sture	Some Notes on the Computation and Interpretation of Capability Indices	Tappi J., vol 78, no 1, pp 183-187, January 1995	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5479&DID=522266	An industrial process may well be centered on the target value but more or less permanent deviations are often unavoidable. They can be classified as: a systematic bias, assignable or common causes	magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
391	o	wind;digital;drive;control	16-Mar-87	5	Carlsten, Kjell	A New Fully Digital Winder Drive System	Winding Technology Conf. Proc., Swedish Newsprint Research Center (TFL), Stockholm, Mar 16-171986				conference	STFL						
392		material;property;ZD;hystersis	01-May-89		Carnaby, G.A et al	Theory of the Compression Hysterisis of Fibrous Assemblies	Textile Research Institute, May 1989				magazine							
5566		roller;rubber;cover;failure;maintenance;design	01-Mar-89	2	Carney, Pat	How's Your Roller IQ	Graphic Arts Monthly, Mar 1989	2			magazine	Graphic Arts Monthly	American Roller	RollerIQam Roller	RollerScan	doc and pdf	07-Dec-09	
394		roller;troubleshoot;maintenance	01-Aug-90		Carney, Pat	Troubleshooting Roller Problems	American Printer, Aug 1990											
14128	o	lateral;dyanamics;guide	07-Jun-15		Carrle, J and Lange S and Ba, Shan	Impacts of a 90 Degree Twist on Lateral Web Mechanics	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	Procter and Gamble					
2969	o	osha;safety;inspections	21-Oct-02		Carroll, Tim	OSHA Compliance, Consultation and Mock Inspections	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL	Dunmore					
395		air;expandable;core shaft	01-Jul-86	5	Cartwright, D.	Air Shafts Give Converters a Grip on Roll Mounting	Converter, vol 23, no 7, pp 8-12, Jul 1986				magazine	Converter						
10021		coating;slot_die	01-Jan-14	4	Carvalho, Marcio Prof	Fundamentals of the slot coating process	Converting Quarterly, qtr 1, 2014	5			magazine	AIMCAL	Pontifica Universidade Catolica do Rio de Janeiro					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5567		roller;rubber;cover;coating	01-May-94	8	Carvalho, Marcio S. and Scriven, L.E.	Effect of Deformable Roll Cover on Roll Coating	Tappi J., vol 77, no 5, pp 201-208, May 1994	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5500&DID=522578	Ribbing, corduroy and pin-striping all refer to nonuniform coating whose thickness profile is wavy in the the transverse direction and more-or-less steady in the coating direction	magazine	TAPPI	Univ of Minnesota	RollCoverRollCoating	RollerScan	doc and pdf	07-Dec-09	
397		slitter;automation	01-Feb-74		Carvalho, Theodore B.	Control and Automate Your Slitting Operation	Plastics Technology, pp 54-59, Feb 1974											
3126		coating;drying	01-Jan-91	6	Cary, J.D. and Gutoff, Edgar B.	Analyze the Drying of Aqueous Coatings	Chemical Engineering Progress, vol 87, no 2, pp 73-79, February 1991											
398		coat	01-Jan-64	11	Casey, J.P.	Pigmented Coated Processes for Paper and Board	TAPPI Monograph Series No. 28, pp 74-84, 1964					TAPPI						
5484		material;paper;poisson_ratio;shear_modulus	01-Sep-87	5	Castagnede, Bernard and Seo, Yung Bum	Optimized Determination of In-Plane Poisson Ratios and Shear	Tappi J., vol 70, no 9, pp 113-117, Sep 1987	3			magazine	TAPPI	SUNY University	PoissonRatioShear	MaterialScan	doc and pdf	29-Dec-09	unusual
400			01-Jan-62		Catlow, M.G. other	A Study of Stress Distribution in Pirns	J. of Textile Institute Part 3, pp T410-429, 1962				magazine							

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
401	o	wrap;recycle	18-Oct-92	6	Caulfield, E.	Wax or Poly Laminated Wrappers and Poly Coated Headers: What's Repulpable to the Pressrooms	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 327-332, Oct 18-21 1992	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5630&DID=516947	Under the new rules of recycling, a hard look at the products used to wrap rolls of paper must be undertaken. Although each product must stand on its own, the fact that all three products (wrappers, bands and headers	conference	TAPPI						
402		flutter	01-Jan-71	1	Cedercreutz, A.V.	Combatting the Edge Flutter Problem in a Paper Machine	Paper Trade J., Vol 155, no 51, p 35, 1971				magazine	Paper Trade J						
403	o	nonwoven;calender;design	11-Mar-96	6	Celli, Alessandro	Winding Technology Today and Tomorrow	TAPPI Nonwovens Conf. Proc., pp 123-128, Charlotte NC, March 11-13, 1996	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5417&DID=521435	This paper analyzes the winding and slitting phases of the nonwovens manufacturing process and their future technical trends to continue this success.	conference	TAPPI						
404		nip;contact;stress	01-Jan-74	2	Chang, C. I.	A Closed-Form Solution for an Orthotropic Rotating Disk	J. of Applied Mechanics, Transactions of the ASME, vol 41				magazine	J Applied Mechanics						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
405	o		21-Sep-97	8	Chang, Eugene and Wright, Kevin	Papers for Value-Added Converting	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 135-142, September 21-24, 1997	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5326&DID=511818	product development scenarios will be presented to illustrate the methodology of optimizing the properties of the paper to attain good runnability and high performance	conference	TAPPI						
406		hardness;test;impact;roll structure	15-Jun-88	83	Chang, Young Bae	Research Proposal on Roll Hardness Measurement	OK. State Univ., WHRC, Preliminary Exam					WHRC	WHRC					
407		flutter;model;measure	01-Dec-90		Chang, Young Bae	An Experimental and Analytical Study of Web Flutter	OK. State Univ., WHRC, Ph.D. Thesis				thesis	WHRC	WHRC					
408		wind;model;air_entrain	01-May-94		Chang, Young Bae and Chambers, Frank W. and Shelton, John J.	Air Entrainment iwth a Forced-Loaded Nip Roller	WHRC Project 90-91-2, May 1994				report	WHRC	WHRC					
5699		roller;span;flutter;vibration;model	01-Aug-91	8	Chang, Young Bae and Fox, S.J. and Lilley, D.G. and Moretti, P.M.	Aerodynamics of Moving Belts, Tapes and Webs	Machinery Dynamics and Element Vibrations, DE-Vol 36, ASME 1991	4			report	ASME	WHRC	AeroMovingBeltTapeWeb	WebHandlingScan	doc and pdf	23-Dec-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
410	c	flutter;windage;model	24-Sep-90	8	Chang, Young Bae and Moretti, Peter M.	Interactions on Fluttering Webs with Surrounding Air	TAPPI Engineering Conf. Proc, Book 1, pp 175-182, Seattle, Sep 24027, 1990	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5720&DID=515901	The out-of-plane flutter of a moving web was studied, initially by analysis of the governing equation. The dynamic terms in the equation include transverse acceleration, Coriolis, and centrifugal forces	conference	TAPPI	WHRC					
5701		roller;span;flutter;vibration;model;measure	01-Mar-91	6	Chang, Young Bae and Moretti, Peter M.	Interactions on Fluttering Webs with Surrounding Air	Tappi J., vol 74, no 3, pp 231-236, Mar 1991	4			magazine	TAPPI	WHRC	FlutteringWebsAir	WebHandlingScan	doc and pdf	23-Dec-09	important precedent
412	o	flutter;model	19-May-91	13	Chang, Young Bae and Moretti, Peter M.	Edge Flutter in Webs	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 257-269, May19-22 1991					WHRC	WHRC					
5700		roller;span;flutter;vibration;model;measure	08-Nov-92	14	Chang, Young Bae and Moretti, Peter M.	An Experimental Study on Edge Flutter in Webs	ASME Winter Annual Mtg, Symposium on Web Handling, Web Mechanics and Flutter, Anheim, Nov 9-13 1992	4			report	ASME	WHRC	ExperEdgeFlutterWeb	WebHandlingScan	doc and pdf	23-Dec-09	
415	o	air_bar;oven;	18-Jun-95	16	Chang, Young Bae and Moretti, Peter M.	Ground-Effect Theory and its Application to Air Flotation Devices	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC	WHRC					
2573		flutter;windage;model	01-Jul-96	6	Chang, Young Bae and Moretti, Peter M.	Elastohydrodynamic Lubricaition of Air-Lubricated Rollers	ASME j of Tirbology, vol 118, pp 623-28, July 1996.						WHRC					

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416	c	flutter;windage;model	22-Sep-90		Chang, Young Bae et al	Aerodynamics of Moving Belts, Tapes and Webs	ASME Conf on Mechanical Vibration and Noise, Symposium on Dynamics of Axially Moving Continua, Sep 22 25 1990						WHRC					
417		flutter;windage;model	01-Jan-91		Chang, Young Bae et al	Aerodynamics of Moving Belts, Tapes and Webs	DE Vol 36, pp 33-40, ASME 1991						WHRC					
2613	o	air_bar;model	06-Jun-99	14	Chang, Young Bae, and Swanson, R.P. and Moretti, P.M.	Resiliency of an Air-Floated Web	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC	WHRC					
419		coat;book	01-Jan-74		Chapman, B.N. and Anderson, J.C.	Science and Technology of Surface Coating	Academic Press, London, 1974	10			Book							
420		calender	01-Oct-69	8	Chapman, D.L.T and Peel, J.D.	Calendering Processes and the Comressibility of Paper, part 2	Paper Technology, 13(5):350-357, 1972				magazine	Paper Technology						
421	o	roll;wrap;recycle	06-Oct-91	4	Chapman, M.R.	Recyclability of Moisture Barrier Wrapper	TAPPI Finishing and Converting Conf. Proc., Houston, pp 109-112, Oct 6-10 1991	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5678&DID=516347	The disposal of moisture barrier packaging materials has become an important issue for paper mills and their customers.	conference	TAPPI						
422		property;strength;measure;sensor	01-Dec-89		Chase, L and Goss, J. and Anderson, L.	On-Line Sensor for Measuring Strength Properties	Tappi J., vol 72, no 12, Dec 1989				magazine	TAPPI						
423		tear;fracture;recycled	01-Jul-93	7	Chatterjee, A and Kortschot, M. and Roy, D.N and Whiting, P.	Tear and Fracture Behavior of Recylced Paper	Tappi J., vol 76, no 7, Jul 1993				magazine	TAPPI						

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3511	o	carbon_fiber	10-Jun-07	8	Chen, C and Lopez, E. and Kokmeci, M. and Jung, YI and Muftu, S.	Manufacturing and Performance Evaluation of Organized Carbon Nanotube-Parlylene Multifunctional Active Thin Films	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC						
424			01-Mar-80		Chen, H.H. et al	Computer Analysis of Tensile Properties of Textile Fibers	ISA Transactions, vol 19, no. 3, pp 79, Mar 1980											
425		textile;fracture	01-Dec-91		Chen, J.	Statistico-Mechanical Response to Continuum Strain Fields - A Fracture Model for Nonwovens	Nonwovens Research, Winter 1992											
426		calender;vibration;barring;frequency;damping	01-Jul-75	5	Chen, Yian N. and Boos, Gunther	Calender Barring on Paper Machines - Theoretical Model Development	Tappi J., vol 58, no 7, pp 93-97, Jul 1975				magazine	TAPPI						
9829		vacuum_dep	10-Jun-12		Chifen, Anye	FLEX-M: Vacuum Web Coater with high Precision Pattern Printing for More than Holographic Application	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Lebold Optics GmbH					
427		roller;alignment	01-Jun-85	2	Chinick, Harold P.	Aligning `Difficult-to-Check' Rolls	Paper Trade J., pp 56-58, Jun 1985				magazine	Paper Trade J						
428		wrinkle;heat;thermal;film	01-Jan-92	14	Chiu, H.C. and Benson, Richard C. and Fiscella, M.D. and Burns, S.J.	Mechanical and Thermal Wrinkling of Polymer Membranes	ASME, AMD v 149, pp 37-50, 1992											
9962	o	roller;print;registration	02-Jun-13	4	Cho, Gyoujin	Fully R2R gravure printed smart tags and related web handling challenges	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	3			conference	WHRC	Sunchon National University					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
429	o	tension;drive; model	01-Oct-90	164	Cho, Sungho	Configuration Optimization for Multi-Span Web Transport Systems	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						
3012		laser;slit;die-cut	01-Mar-03	4	Chow, Chris and Clark, David	Advent of laser converting offers new options	Converting Magazine vol 21, no 3, pp 74-77, March 2003	4	http://www.convertingmagazine.com/article/310875-Advent_of_laser_converting_offers_new_options.php	Carbon dioxide (CO2) laser converting has long been recognized as the premier technique for precision slitting, cutting and kiss-cutting of intricate patterns and closely spaced features on thin film materials	magazine	Converting Magazine	Preco Laser and Coherent					
3226	o	extruder;temp; measure	29-Aug-04		Christies, Andrew W.	Using Thermal Process Imaging for Extruder Analysis and Improvement	TAPPI PLACE Conf, Indianapolis, August 29, 2004	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5053&DID=525982	A scanning infra-red thermal imager is used to continuously measure extrudate temperatures in an extrusion coating process. Position dependent and time dependent process variables are recorded	conference	TAPPI	Optex					
14098		winder;safety;regulations	01-Jul-15	5	Christman, Bill	Engineering slitter/rewinders for improved operator safety	Converting Quarterly, qtr 3, 2015	3			magazine	AIMCAL	Catbridge Machinery					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
430	o	roller;tungsten_carbide	21-Sep-97	6	Ciccone, Paul and Garvey, Kevin	Factors Affecting Selection and Performace of Thermal Sprayed Coatings	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 129-134, September 21-24, 1997				conference	TAPPI						
5458		coating;silicone;psa	27-Mar-96	15	Cifuentes, Martin and Tangney, Thomas	High Performance Silicone Pressure Sensitive Adhesives Technology: Conversion and Applications	CEMA Shortcourse The Coating and Lamination Process Substrates, Coatings and Equipment, March 27, 1996	2			shortcourse	CEMA	Dow Corning	SiliconePSAdow	CtgCema96	doc and pdf	01-Oct-09	
2549		roll;storage;vacuum;handling	01-Mar-99	5	Clamp, David J.	Appleton Optimize Space, Reduces Causts with Automated Vacuum Roll Storage	Pulp & Paper, vol 73, no 3, March 1999				magazine	Pulp and Paper						
431		coat;blade;book	01-Jan-78		Clark, C. Wells	Blade Coating Technology	TAPPI Press, 1978	10			Book	TAPPI						
432		dust	01-Dec-89		Clarke, E.	Blow that Dust Away	Paper, Dec 19 1989				magazine							
433	o	plc;automation;convert	01-Oct-89	7	Clarke, Karen E.	Cell Control in Finishing and Converting	TAPPI Finishing and Converting Conf. Proc., Kansas City MO, pp 5-10, Oct 1-5 1989				conference	TAPPI						
2532		corrugated;board;strength;test;standard	01-Oct-98	6	Clarke, Susan J.	Compressive Strength Tests Improve Corrugated Life-cycle Evaluation	Packaging Technology & Engineering, pp 24-29, October 1998											
434		wet;stretch;beating;paper;fiber;tensile;strength;drainage;	01-Nov-82	5	Claudio-da-Silva, E. Jr. and Marton, Renata and Granzow, S.	Effect of Beating on Wet Web Properties	Tappi J., vol 65, no 11, pp 99-103, Nov 1982				magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3198		winding	01-Aug-04	1	Cleaveland, Carrie	The Word on Winding	Paper, Film & Foil Converter, vol 78, no 8, pp 92, Aug 2004	1	http://pffc-online.com/mag/product_focus_winders/	Winders may not cost six million dollars, but like that 1970s television phenomenon, The Six Million Dollar Man, we have the technology to build them better, stronger, and faster.	magazine	Paper Film Foil Converter						
435	o	roll;wrap;film	06-Oct-91	6	Climenhage, David C. and Borgel, D.	Roll Wrapping with High Performance Stretch Wrap	TAPPI Finishing and Converting Conf. Proc., Houston, pp 103-108, Oct 6-10 1991	2	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5678&DID=516346	This paper explores the potential advantages of roll wrapping with high performance Plastic Stretch Wrap. Machinery and film developments make plastic film wrapping more attractive	conference	TAPPI						

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2925	o	roll;wrap;film	02-Dec-01	5	Climenhage, David C. and Downey, Jeffrey S.	The Effects of Pre-Stretching on the Physical Properties of LLDPE Stretch Films	TAPPI Engineering and Finishing and Converting Conf. Proc., San Antonio, December 2-6, 2001	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5098&DID=524902	Pre-stretching LLDPE films specifically formulated and manufactured for use in roll wrapping applications can significantly improve many of their physical properties which help protect the substrate from damage during handling and storage	conference	TAPPI						
436		organization	01-Feb-93	7	Closset, Gerard P. and Feigenbaum, Marlene W.	Redesigning a Technical Organization for High Performance	Tappi J., vol 76, no 2, pp 73-79, Feb 1993				magazine	TAPPI						
437		corrugator;time_cycle;model	01-Jan-93	6	Cloud, Franklin H.	Determining Corrugator Performance with different numbers of roll-stock sizes available for scheduling	Tappi J., vol 76, no 1, pp 152-157, Jan 1993	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4800&DID=520421	determine corrugator performance when operating with a different number of roll sizes available for scheduling. Data are presented on number of changes, running speed widths, side trims, and costs	magazine	TAPPI						
9923		coating;defect;optical;detect	01-Feb-13	1	Cohen, Edward	Are on-line defect-detection systems effective to improve cost and quality?	Converting Quarterly, qtr 1, 2013	3			magazine	AIMCAL	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9890		coating;defect	01-Apr-12	3	Cohen, Edward D	Web Coating Defects: role of substrate in defect formation	Converting Quarterly, qtr 2, 2012	2			magazine	AIMCAL	self					
10010		air_float;dryer;flow;speed	01-Dec-13	2	Cohen, Edward D	How do uniform nozzle slot velocities improve drying quality and costs	Converting Quarterly, qtr 4, 2013	4			magazine	AIMCAL	self					
14169		coating;thickness;weight;scanner;sensor	01-Jul-16	2	Cohen, Edward D	What in-line characterization systems are available for the web coating process	Converting Quarterly, qtr 3, 2016	3			magazine	AIMCAL	self					
14177		coating;thickness;weight;scanner;sensor	01-Oct-16	3	Cohen, Edward D	Troubleshooting visible defects in the web-coating process	Converting Quarterly, qtr 4, 2016	3			magazine	AIMCAL	self					
14175		coating;thickness;weight;scanner;sensor	01-Oct-16	2	Cohen, Edward D	What is coating thickness profile and why is it important	Converting Quarterly, qtr 4, 2016	3			magazine	AIMCAL	self					
439		coat;dry;film;book	04-Oct-94	40	Cohen, Edward D.	Troubleshooting Coater/Dryer Defects	AIMCAL 1994 Fall Tech. Conf. Proc., Atlanta, pp 161-200, Oct 4-5, 1994	10			Book	AIMCAL	Self					
440		coat;dry;defects;film	02-Oct-95		Cohen, Edward D.	Coating/Drying Defects	AIMCAL 1995 Fall Tech. Conf. Proc., Atlanta, Oct 2-4, 1995					AIMCAL	Self					
2754	o	troubleshooting	16-Oct-00		Cohen, Edward D.	A Multiphased Approach to Coater Efficiency	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL	Self					
2747	o	troubleshooting	16-Oct-00		Cohen, Edward D.	Troubleshooting Methodology	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL	Self					

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2852		troubleshooting;coating;defect	01-Jul-01	1	Cohen, Edward D.	What's an easy way of characterizing coating defects	Converting Magazine, vol 19, no 7, pp 24, July 2001	3	http://www.converting magazine.com/article/309584-What_s_an_easy_way_of_characterizing_coating_defects_.php	A reliable, rapid defect-characterization process is essential to eliminate defects in coating operations. The characterization procedure should provide useable information, be easy to use	magazine	Converting Magazine	Self					
2882		coating;methods;design	01-Sep-01	7	Cohen, Edward D.	Five crucial trends are changing coating	Converting Magazine, vol 19, no 9, pp 48-57, September 2001	3	http://www.converting magazine.com/article/311577-Five_crucial_trends_are_changing_coating.php	•Improved applicator performance and flexibility •Increased use of specialized coating devices •Increase in use of pre-metered applicators •Availability of versatile laboratory coating machines •Improved process control	magazine	Converting Magazine	Self					
2903	o	defect;troubleshooting	22-Oct-01		Cohen, Edward D.	Defect Characterization; Techniques	AIMCAL Fall Tech Conf, Oct 22-24, 2001					AIMCAL	Self					
2976	o	coater;lab;r&d	21-Oct-02		Cohen, Edward D.	New Lab Coater Technology	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL	Self					
2977	o	coater;rebuild	21-Oct-02		Cohen, Edward D.	Is Retrofitting an Existing Coater a Good Alternative to Building a New Coater	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL	Self					

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3029	o	Coating	13-Apr-03	5	Cohen, Edward D.	Coating Methods - Selecting the Right Coating Methods	CEMA Coating and Laminating Seminar, Chicago, April 15, 2003				shortcourse	CEMA	Self					
3119		coating;problem_solving	01-Jul-03	2	Cohen, Edward D.	What problem-solving skills do I need for the coating process	Converting Magazine, vol 21, no 7, pp 18-19,July 2003	3	http://www.convertingmagazine.com/article/308514-What_problem_solving_skills_do_I_need_for_the_coating_process_.php	problems can cover a wide range of deficiencies, such as: physical defects from contamination, coating instability defects, support induced defects, non-uniform coverage, poor drying, installing an additional coating method	magazine	Converting Magazine	Self					
3135		coating	01-Oct-03	3	Cohen, Edward D.	Coating Success	Paper, Film & Foil Converter, vol 77, no 10, pp 38-40, Oct 2003	3	http://pffc-online.com/unprinted_rolls/paper_coating_success/	A successful coating process is relatively easy to define by stating the desired performance requirements and the ability to meet safety and environmental standards.	magazine	Paper Film Foil Converter	Self					
3146	o	coat;defects	26-Oct-03		Cohen, Edward D.	Defects Caused by Process Support Equipment	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003					AIMCAL	Self					
3157	o	coating;defect;book	26-Oct-03		Cohen, Edward D.	AIMCAL Coating Defects Dictionary	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003	10			Book	AIMCAL	Self					

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3175		coating;defect;troubleshooting book	01-Feb-04	5	Cohen, Edward D.	Learning the Lingo	Paper, Film & Foil Converter, vol 78, no 2, pp 10-16, February 2004	2	http://pffc-online.com/mag/paper_learning_lingo/	AIMCAL's Coating Defects Lexicon aims to end the confusion.	magazine	Paper Film Foil Converter	Self					
3193		coat;weight;measurement;control	01-Jul-04	3	Cohen, Edward D.	Weight Control	Paper, Film & Foil Converter, vol 78, no 7, pp 55-57, July 2004	3	http://pffc-online.com/mag/paper_weight_control/	The quality and performance of a coated product depend on obtaining the desired coating weight and maintaining its uniformity in all the rolls of manufactured product	magazine	Paper Film Foil Converter	Self					
3254	o	coat;speed	24-Oct-04		Cohen, Edward D.	Practical Technology Needs for Coating Faster	AIMCAL Fall Tech Conf, Charleston, October 24-27, 2004					AIMCAL	Self					
3212	o	coating	25-Oct-04	1	Cohen, Edward D.	Practical Technology Needs for Coating Faster	AIMCAL Fall Tech Conf, Charleston SC, Oct 24-27, 2004					AIMCAL	Self					
3261		coating	01-Nov-04	1	Cohen, Edward D.	How do I know when my coating method is obsolete	Converting Magazine, vol 21, no11, pp 20, November, 2004	3	http://www.convertingmagazine.com/article/308318-Focus_on_Coating_Laminating_Metallizing.php	A coating applicator is a very reliable process and can effectively coat a variety of products over a range of process conditions, i.e., line speed, viscosity, coverage	magazine	Converting Magazine	Self					

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3279		coating	01-Apr-05	4	Cohen, Edward D.	Advances in Coating	Paper, Film & Foil Converter, vol 79, no 4, pp 46-52, April 2005	3	http://pffc-online.com/mag/advances_coating_0405/	These advances have occurred in all parts of the process, with major advances in coating application, on-line inspection instrumentation, and process control systems.	magazine	Paper Film Foil Converter	Self					
3334		coating	01-Sep-05	3	Cohen, Edward D.	Fighting Flaws	Paper, Film & Foil Converter, vol 79, no 9, pp 52-54, Sept 2005	3	http://pffc-online.com/mag/fighting_flaws_0905/	Other process support equipment—filtration, pumping, surface treatment, mixing—often is ignored, even though it has a significant impact on coater performance.	magazine	Paper Film Foil Converter	Self					
3372		coater;rebuilt	01-Feb-06	3	Cohen, Edward D.	Can this coater be saved	Paper, Film & Foil Converter, vol 80, no 2, pp CL26-29, Feb 2006	2	http://pffc-online.com/mag/cl_2006_coater_saved/	What to do with an aging coater is a dilemma encountered by many people in the converting industry. As the coater matures, it will start to develop problems	magazine	Paper Film Foil Converter	Self					
3444		coating;defect;troubleshooting	23-Oct-06	1	Cohen, Edward D.	The importantce of product and process and characterization in defect reduction	AIMCAL Fall Tech Conf Proc, Reno, October 22-25, 2006					AIMCAL	Self					

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3484		coating;defect; troubleshoot	01-May-07	4	Cohen, Edward D.	Cause & Defect	Paper, Film & Foil Converter, vol 81, no 5, pp 54-59, May 2007	3	http://pffc-online.com/mag/paper_cause_defect/	since many coating defects can have a variety of causes, characterization will help determine the true cause.	magazine	Paper Film Foil Converter	Self					
3488		coating	01-Jun-07	3	Cohen, Edward D.	Older Methods Still Effective	Converting Magazine, vol 23, no6, pp 44-48, June, 2006				magazine	Converting Magazine	Self					
3680		coating	01-Dec-08	3	Cohen, Edward D.	Process Characterization	Paper, Film & Foil Converter, vol 82, no 11, pp 33-35, Dec 2008				magazine	Paper Film Foil Converter	Self					
5921		coating;thickness;viscosity;speed;application;design	01-Feb-10	3	Cohen, Edward D.	Thin Coating Challenges	Paper, Film & Foil Converter, vol 84, no 2, pp 30-32, Feb 2010	4	http://pffc-online.com/coat_lam/coatings/0201-thin-coating-challenges/	discuss the technical challenges that must be overcome to successfully manufacture thin film products. It will focus on products solution-coated in a web coating process and the substrate used	magazine	Paper Film Foil Converter	Self					
5982		coater;pilot;lab	01-Oct-10	4	Cohen, Edward D.	Smal Volume, Big Advances	Paper, Film & Foil Converter, vol 84, no 10, pp 30-34, Oct 2010	4	http://pffc-online.com/coat_lam/pilot-coaters-advances-1001/	Implementation of new technology and hardware in laboratory/pilot coating and drying processes has resulted in several very effective developmental machines.	magazine	Paper Film Foil Converter	Self					

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6029	o	coating;defect; streks	01-Feb-11	3	Cohen, Edward D.	Web coating defects: streaks and how to eliminate them	Converting Quarterly, AIMCAL, pp 60-65, Feb 2011	4		streaks are most common coating defect, slot die accounting for 50% of the streaks compared with other coating methods	magazine	AIMCAL	Self					
6073		coating;defects	01-Feb-11	3	Cohen, Edward D.	Web coating defects: Streaks and how to eliminate them	Converting Quarterly, AIMCAL, pp 63-65, Feb 2011	2	http://www.mydigitalpublication.com/publication/?i=61538		magazine	AIMCAL	self					
6126		coating;impregnation	01-Sep-11	1	Cohen, Edward D.	What is the impregnation-coating process and why is it used	Converting Quarterly, qtr 3, 2011	2		saturation coating	magazine	AIMCAL	self					
9779		coating;drying; defect	01-Nov-11	1	Cohen, Edward D.	Web coating defects: controlling drying defects, Part I	Converting Quarterly, qtr 4, 2011	2			magazine	AIMCAL	self					
9772		coating;curtain	01-Nov-11	1	Cohen, Edward D.	What is the curtain-coating process and what are its advantages	Converting Quarterly, qtr 4, 2011	3			magazine	AIMCAL	self					
9906		coating;design	01-Aug-12	5	Cohen, Edward D.	Ten success principles for the web-coating process	Converting Quarterly, qtr 2, 2012	2			magazine	AIMCAL	self					
9937		coating;defect	01-May-13	4	Cohen, Edward D.	Web coating defects: approaches to improve coater performance	Converting Quarterly, qtr 2, 2013	2			magazine	AIMCAL	self					
10003		coating;defect; map	01-Aug-13	2	Cohen, Edward D.	Ho do defect maps help troubleshoot coating problems	Converting Quarterly, qtr 3, 2013	3			magazine	AIMCAL	self					
10032		coating;defect; chatter	01-May-14	2	Cohen, Edward D.	How do I reduce chatter defects in a web-coated product	Converting Quarterly, qtr 2, 2014	4			magazine	AIMCAL	self					

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10037		coating;defect;troubleshooting	01-May-14	5	Cohen, Edward D.	Ten pitfalls to avoid in developing low-defect, web-coated products	Converting Quarterly, qtr 2, 2014	3			magazine	AIMCAL	self					
14079		coating;defect;troubleshooting;drying	01-Jan-15	4	Cohen, Edward D.	Basic causing of coating and drying defects: Part 1	Converting Quarterly, qtr 1, 2015	4			magazine	AIMCAL	self					
10110		coating;defect;troubleshooting;ribbing	01-Jan-15	2	Cohen, Edward D.	What are key maintenance tasks to minimize coating defects?	Converting Quarterly, qtr 1, 2015	4			magazine	AIMCAL	self					
14087		film;dry;temperature	01-Apr-15	2	Cohen, Edward D.	Why is a film's temperature during the drying process important	Converting Quarterly, qtr 2, 2015	4			magazine	AIMCAL	self					
14091		coat;dry;defect	01-Apr-15	3	Cohen, Edward D.	Basic causes of coating & drying defects: Part 2	Converting Quarterly, qtr 2, 2015	4			magazine	AIMCAL	self					
10073		coating;defect;troubleshooting	01-Sep-15	2	Cohen, Edward D.	What are key maintenance tasks to minimize coating defects?	Converting Quarterly, qtr 3 2014	3			magazine	AIMCAL	self					
438		coat;oven;dry	01-Jan-92		Cohen, Edward D. and Gutoff, Edgar B.	Modern Coating and Drying Technology	VCH Publishers, In., New York, 1992						Self					
9877		splice;butt;strength	22-Oct-12		Cole, Kevin	Butt Splice Hinging	AIMCAL Web Handling Conference, Myrtle Beach, Oct 22-23, 2012			model is described that predicts hinging magnitude. Experimental measurements are shown and the relative effects of product and process parameters on hinging are	conference	AIMCAL	Optimation				27-Jul-12	

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9959	o	nip;roller;rubber;cover;feed	02-Jun-13	23	Cole, Kevin	Modeling of nip pressures and web feed rates in rubber covered nip rollers	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	3			conference	WHRC	Optimation					
14116	o	roller;traction;pull	07-Jun-15		Cole, Kevin	Pull Rollers: Plain, Vacuum and Unported	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	Bruckner					
441	o	wind;model;dish	01-Jun-97		Cole, Kevin A.	A Model for the Prediction of Wound Roll Dishing	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC	Kodak					
3079	o	winding;model	01-Jun-03	8	Cole, Kevin A.	The Effects of Nonideal Webs on Roll Winding	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC	Kodak					
3706	o	wind;model;moisture	07-Jun-09	22	Cole, Kevin A.	Gentle Wavy Defects in Knurled Wound Rolls	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC	Kodak					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5949	o	nip;roller;feed;wrinkle	18-May-10	1	Cole, Kevin A.	Measurement and Modeling of Nip Roller Feed Rates	Applied Web Handling Conf, AIMCAL AWEB, Rochester, May 17-20	4	http://www.aimcal.org/association/aweb10/abstracts.asp?RECORD_KEY=filename&filename=cole	elastomeric-covered rollers have the unwanted and often unpredictable characteristic of unknown surface speed owing to coupling between circumferential and radial strains within the nip	conference	AIMCAL	Optimation	AWEB/AWEB10	AWEB2010	pdf	04-Jun-10	
6061		nip;roller	06-Apr-11		Cole, Kevin A.	Conveyance Roller Nip Mechanics	ICE USA 2011 Tech Program	3			conference	ICE AIMCAL	Optimation					
442		wind;model;3d;caliper;variation		12	Cole, Kevin A. and Hakiel, Zig	A Nonlinear Wound-Roll Stress Model Accounting for Widthwise Web Thickness Nonuniformities	Web Handling Proceedings of the Winter Annual Meeting of ASME, AMD-Vol 149, pp 13-24					ASME	Kodak					
443		wind;model	01-Jan-92	12	Cole, Kevin A. and Hakiel, Zig	Nonlinear Wound Roll Stress Model accounting for widthwise Web Thickness nonuniformities	ASME, AMD v 149, pp 12-24, 1992						Kodak					
6058	o	ruber_cover;nip;feed	13-Jun-11	19	Cole, Kevin A. and Walker, Timothy J.	Measurement and Modeling of 2-D and 3-D Web Feed Rates in Rubber Covered Nip Roller Applications	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15	5			conference	WHRC	Optimation					
444		winding;kinematics;roll structure	01-Feb-82	2	Coleman, J.J.	Kinematics of Tape Recording	Am. J. Phys., vol 50, no 2, pp 184, Feb 1982											
445		finishing;computer;roll handling	01-Jun-86	1	Coleman, M.	Finishing and Shipping Gets Upgrade at Crossett	Southern Pulp & Paper Mfr, vol 49, no 6, pp 16, Jun 1986				magazine							

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3393	o	drive;application	07-May-06	1	Colletti, Edward	Equipment and performance evaluation - a real life case study of the benefits and savings	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Circonix					
446	c	paper;property;calender;moisture;caliper	02-Oct-72		Colley, J. and Peel, J.D.	Calendering Processes and the Compressibility of Paper; Part 2	Paper Technology, Oct 1972				magazine	Paper Technology						
447		roll structure;cameron gap;schmidt hammer;transport	01-Jan-83	5	Colley, J. et al	Winder Operation Improvement for Better Press Runnability	Appita, vol 36, no 4, pp 288-292				magazine	APPITA						
448	o	organization;project;management	01-Sep-93	4	Collier, Samuel K.	Tens Ways to Derail a Project	Tappi J., vol 76, no 9, pp 65-68, Sep 1993	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5621&DID=524279	There are infinite ways to have bad project quality or, more simply, screw up a project. This paper describes ten common methods to execute a disastrous project.	magazine	TAPPI						
2989	o	vacuum_coater;time_cycle	21-Oct-02		Colombo, Angelo	Vacuum Coaters for Packaging: Innovations for Productivity	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL	Galileo					
449	o	splice;tape	24-Oct-93	8	Colvin, S. and Koepke, B.	Repulpable Tape Quality/Performance	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 161-168, Oct 24-27 1993	1	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5578&DID=523483	Many repulpable tapes have been developed to satisfy customer requirements for splice quality, production rates and repulpability	conference	TAPPI						

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10068		roller;carbon_fiber	08-Jun-14		Comand, Dario	Low Inertia Carbon Fiber Rollers a big step in the Performance of Coating and Laminating Machines	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014	3			conference	AIMCAL	Reglass HT					
3077	o	curl;measure	01-Jun-03	8	Comeau, R. (Dofasco)	Calculating Coilset Based on Curvature of a Web	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC						
450			01-Jul-84		Compton, William H.	Force Transducers Accurately Sense Process Line Tension	The Magazine of Industrial Motion and Control, pp 2, Jul 1984											
451		slip;creep;drag;fabric;tension;modulus;friction coefficient;wra	01-Dec-75	3	Condon, E. M.	How Drag Load Affects Slip and Creep--and What to do About it	Pulp & Paper, vol 49, no 12, pp 120-122, Dec 1975				magazine	Pulp and Paper						
452		wind;stress;model	01-Jan-84		Connolly, D. and Winarski, D.	Stress Analysis of Wound Magnetic Tape	Proc. of ASLE-Int. Conf, SP 16, San Diego											
453		wind;model	01-Jan-84		Connolly, D. and Winarski, J.	Stress Analysis of Wound Magnetic Tape	Tribology & Mechanics of Magnetic Storage Media Special Publication 16, Am. Soc. of Lubrication Engr, 1984											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2808		tension;profile;measure`	04-Apr-99		Connors, R and Virtanen, J and Lang, D.	Web Tension Profile Measurement: a New Window into the Papermaking Process	TAPPI Conf, Atlanta, March 1999.	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5214&DID=508759	This paper describes a new, high speed, non-contacting sensor that measures web tension across the entire web. The new tension beam has been used to replace conventional load cell measurements		TAPPI						
454		corrugate;box;creep;strength	01-Jan-94	9	Considine, John M. et al	Compressive Creep Behavior of Corrugating Components affected by Humid Environment	Tappi J., vol 77, no 1, pp 87-95, January 1994				magazine	TAPPI						
455		nip;stress;contact	01-Jan-71	2	Conway, H.D.	The Effects of Friction on Normal Contact Stresse	J. of Applied Mechanics, Transactions of the ASME, vol 38				magazine	J Applied Mechanics						
5635		sheet;guillotine;drive;rotary_knife;dead_knife;twin_kinfe;cut_quality	01-May-76	5	Cook, Roy	Sheet finishing and cut edge quality	Svensk Papperstidning, pp 149-153, May 1976	2			magazine	Svensk papperstidning	Stachan & Henshaw Ltd	SheetFinishCook	SlitScan	doc and pdf	14-Sep-09	
456		material;property;shrink;creep;textile	01-Sep-91		Cookson, P.G. et al	Measurement of Relaxation Shrinkage in Woven Wool Fabrics	Textile Research J., Sep 1991				magazine	Textile Research J						
457		hygro;moisture;expansion;textile	01-Jun-91		Cooson, P.G. et al	Measuring Hygral Expansion in Woven Wool Fabrics	Textile Research J., Jun 1991				magazine	Textile Research J						
9850		defect;detect	22-Oct-12		Copeland, Nick	In-Line Pin Hole detection - Hawkeye	AIMCAL Web Coating Conference, Myrtle Beach, Oct 22-24, 2012				conference	AIMCAL	General Vacuum Equipment					
5517		core;wind	01-Oct-82	2	Corbitt, Maurice R.	The Fiber Paper Mill Core	TAPPI Finishing and Converting Conf. Proc., pp 125-126, 1982	3			conference	TAPPI	Sonoco	CoreCorbitt	MiscScan	doc and pdf	17-Sep-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
459	o	slit;waterjet	07-Oct-90	6	Corcoran, M.	Technical Aspects of Waterjet Slitting	TAPPI Finishing and Converting Conf. Proc., Lake Buena Vista FL, pp 111-116, Oct 7-10 1990	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5730&DID=515325	significant reduction in the generation of airborne dust and higher cut-ting speeds. Waterjet-slit edges are cleaner, stronger, more tear resistant and less likely to cause a web break	conference	TAPPI						
460	o	wound_roll;label	15-Oct-95	6	Cos, R.S.	Changing to Pressure Sensitive Labeling	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 155-160, Oct 15-18, 1995	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5460&DID=521813	pressure sensitive labeling. It discusses the upside and downside of changing over: lead times, cost areas associated with changing, customer demands, nventories, label orientations, different types of applicators	conference	TAPPI						
461		calender;bar	01-Feb-88		Cotgrove, L.B.	Calender Barring - Causes and Cures	Pulp and Paper Mill Equipment, February 1988				magazine	Pulp and Paper						
462	o	roller;machine;vibration	26-May-96	25	Coulter, Tome E.	Modern Press Vibration Analysis Techniques	TAPPI Tissue Runnability Shortcourse, Perdido Beach, AL, May 21-23, 1996				shortcourse	TAPPI						
463		slitter;turret;winder	20-Jan-81		Cox, Jacqueline	Automatic Turreting Slitter Doubles Productivity	Paper Trade J., vol 165, no 2, pp 70				magazine	Paper Trade J						
464		winder;time cyle;automation	30-Mar-82	2	Cox, Jacqueline	Automating Winder Speed to Eliminate Paper Machine Production	Paper Trade J., pp 28, Mar 30 1982				magazine	Paper Trade J						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
466		coreshaft;composite	01-Oct-91		Cox, Jacqueline	Composite Shafts Give a Break to the Papermaker's Back	American Papermaker, Oct 1991				magazine	American Papermaker						
465		core;automation	01-Oct-91		Cox, Jacqueline	Automated Core Preparations Systems are Moving Into North America	American Papermaker, Oct 1991				magazine	American Papermaker						
467		wind;core;carbon_fiber;coreshaft	01-Oct-94	1	Cox, Jacqueline	Carbon Fiber Shafts	American Papermaker, pp 25, October 1994				magazine	American Papermaker						
468		wind	04-Oct-94	14	Cox, Stephen	10 Ways to Wind Better Rolls	AIMCAL 1994 Fall Tech. Conf. Proc., Atlanta, pp 55-68, Oct 4-5, 1994					AIMCAL						
469		unwind;brake;regenerative;brake;hydrostatic;disk	01-Sep-86		Coyle, F.	Comparison of Three Systems of Braking Control for Unwind Rolls	Pulp & Paper, vol 60, no 9, pp 135-137, Sep 1986				magazine	Pulp and Paper						
3151	o	roller;heat;fluid	26-Oct-03		Cozzarin, George	Heat Transfer Rolls (F.R. Gross Co.)	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003					AIMCAL						
14085		vacuum;tension;traction;roller	01-Apr-15	3	Cozzarin, George	Vacuum tension rolls: how they work and where to use them	Converting Quarterly, qtr 2, 2015	3			magazine	AIMCAL	Webex					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2866		heated;rollers; coating	26-Aug-01		Cozzarin, George and Womer, Timothy W.	Heat Transfer Rolls: Function, Application and Design Relationships	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Diego, Aug 26-30, 2001	3	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5114&DID=524865	There exists a hand full of roll designs that offer as many degrees of heat transfer efficiency. However, there exist numerous coatings that can be applied to the rolls, and hundreds of surface finishes that can be imparted on the coatings	conference	TAPPI						
470	o	yankee;doctor; roller;tissue	26-May-96	25	Cozzens, David E.	Yankee Doctors as a Tool for Tissue Making	TAPPI Tissue Runnability Shortcourse, Perdido Beach, AL, May 21-23, 1996				shortcourse	TAPPI						
471			07-Dec-49		Crafts, Curtis S.	Lateral Registration Devices for Printing Presses	Canadian Patent #474, 415 (1951) (Filed December 7, 1949)				patent							
10036		duplex;winder; differential;slipped-core;wind;shaft;design;temperature;roll_size	01-May-14	5	Cragi, Sean L	Controlling web tension with differential shafts	Converting Quarterly, qtr 2, 2014	4			magazine	AIMCAL	Maxcess					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3161		ergonomic;wmsd;safety	01-Nov-03	3	Craig, Sean	How to set up an Ergonomic Roadmap	Converting Magazine, vol 21, no 11, pp 35, Nov 2003	4	http://www.convertingmagazine.com/article/309940-How_to_set_up_an_ergonomic_roadmap.php	rising number of workers' compensation claims for work-related, non-traumatic injuries or disorders involving soft-tissues (nerves, tendons, muscles and supporting structures) known as work-related musculoskeletal disorders (WMSDs or MSDs).	magazine	Converting Magazine	Tidland					
3167		ergonomic;safety;winding	01-Dec-03	3	Craig, Sean	Ergonomic solutions for using winding components	Converting Magazine, vol 21, no 12, pp 46-48, Dec 2003	4	http://www.convertingmagazine.com/article/310531-Ergonomic_solutions_for_using_winding_components.php	"Light as possible" is now the mantra for winding and core-holding components handled by operators and maintenance personnel. As ergonomic programs are implemented	magazine	Converting Magazine	Tidland					
3400	o	differential;slip_core;winding	07-May-06	1	Craig, Sean	Differential Winding tools and best practices	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Tidland					
10095		slitting;application;drive;speed	20-Oct-14		Craig, Sean	Managing Overspeed to Reduce Slitting Defects	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014	4			conference	AIMCAL	Tidland					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
14080		sltting;shear;overspeed	01-Jan-15	5	Craig, Sean	Managing overspeed in tangent shear-slitting operations	Converting Quarterly, qtr 1, 2015	4			magazine	AIMCAL	Tidland, Maxcess					
14097		sltting;shear;blade;cant_angle;side_force	01-Jul-15	3	Craig, Sean	Managing blade profile, cant angle and side force in tangent shear-slitting operations	Converting Quarterly, qtr 3, 2015	4			magazine	AIMCAL	Tidland, Maxcess					
472		nonwoven;towel;slitter;winder	05-May-81		Crain, J.D.	New Developments in Converting Methods and Machinery for Nonwovens	EDANA INDEX 81 (Amsterdam) Cong Papers, session 6. paper 4, 10 p											
5485		material;modulus;strength;paper;ultrasonic;measurement	01-Mar-65	6	Craver, J.K. and Taylor, D.L.	Nondestructive Sonic Measurement of Paper Elasticity	Tappi J., vol 48, no 3, pp 142-147, Mar 1965	3			magazine	TAPPI	Monsanto	SonicMeasureElasticity	MaterialScan	doc and pdf	29-Dec-09	unusual
5541		moisture;humidity;strength	01-Feb-62	14	Crook, D.M and Bennett, W.E	The Effect of Humidity and Temperature on the Physical Properties of Paper	British Paper and Board Industry Research Assoc., RA/T/90, Feb 1962	2			report	British Paper and Board Industry Research Assoc	British Paper and Board Industry Research Assoc	HumidityTempPaperProp	MoistureScan	doc and pdf	16-Sep-09	
475		chuck;core;expansion;force;tension;control	01-Apr-87	4	Crooks, J. and Flagg, Edward	Rolling Friction Lets Core Chucks Do Better Job	Paperboard Packaging, vol 72, no 4, pp 58-60, 62, Apr 1987				magazine							
476		laser;slit	01-Sep-95	3	Crosby, Paul	Power-On-Demand Laser Cutting	Converting Magazine, pp 78-80, September 1995	2	http://www.convertingmagazine.com/article/310805-Staying_inside_the_lines.php	From a skewed web path come problems ranging from poor registration to improper curing and drying—or simply having to run the machinery slower than its optimum productivity.	magazine	Converting Magazine						
477		calender;nip;speed;load;model	01-Jan-80	6	Crotogino, R.H.	Towards a Compressive Calendering Equaitons	Trans Tech Sect CPPA, 6(4):89-94, 1980											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
478		noise;grooving;trim;vibration	02-Oct-78	6	Crouse, Jere W.	Winder Noise Its Generation and Current Methods of Reduction	TAPPI Finishing and Converting Conf. Proc., 1978				conference	TAPPI	Beloit					
479		noise;grooving;trim;vibration;winder;drum;blower;slitter;trim;s	01-May-79	3	Crouse, Jere W.	Winder Noise Generation and Current Methods of Reduction	Tappi J., vol 62, no 5, pp 69-71, May 1979				magazine	TAPPI	Beloit					
480		calender;bar;vibration	01-Sep-63	10	Cuffey, William H.	Newsprint Calender Vibration as it Affects Machine-Direction Caliper Uniformity	Pulp and Paper Mag. Can., vol 64, no 9, pp T379-T388, September 1963				magazine	Pulp and Paper Canada						
481	o	jumbo_roll	24-Oct-93	2	Cumfer, Donald	Three Meter Rolls: Problems and Solutions	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 373-375, Oct 24-27 1993				conference	TAPPI						
482	o	clay	06-Oct-96	25	Cummings, D.O. and Lyongs, Anthony V.	The Influence of Engineered Kaolin on Web Offset Blister Resistance	TAPPI Finishing and Converting Conf. Proc., Bal Harbor, FL, pp 15-40, Oct 6-9, 1996	2	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5370&DID=521014	A comparison was made of the blister tendency for coating formulations containing a standard fine coating clay with commercially available latexes of distinct glass transition temperatures, calcined clay, or engineered kaolin	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
483		slit;score	01-Nov-90		Cummings, J.A. and Paulson, R.F.	Slitting on the Corrugator with a Thin Blade Against a Slotted Anvil	Tappi J., vol 73, no 11, Nov 1990	4	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5718&DID=515351	Key ideas required for successful application of the thin blade slitting technique include the use of a slotted anvil roll, a blade lubricator, and an on-machine blade-sharpening system.	magazine	TAPPI						
3351	o	gage;caliper;scanner	26-Sep-05		Cunningham, Michael	Economic Analysis of ON-Line Gauging for Coating/Laminating Process	TAPPI PLACE Conf, Las Vegas, September 26, 2005				conference	TAPPI	EGS Gauging					
9819		coat;primer	10-Jun-12		Cushing, Ginger	A comparison of Aqueous Primers for Anchoring Vacuum Deposited Aluminun to Film Substrates	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Michelman Inc					
10057		heat_seal;coating	08-Jun-14		Cushing, Ginger	Bridging the Gap Between Water Based Heat Seal Coatings and Extrusion Coated Polyethylene Sealants	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014	4			conference	AIMCAL	Michelman Inc					
3228	o	primer;roller;coater	29-Aug-04		Cushing, Virgina P.	How to Apply an Oxygen Barrier Primer with a Roll Coater	TAPPI PLACE Conf, Indianapolis, August 29, 2004				conference	TAPPI	Mica					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5568		roller;bearing; design;maintenance;troubleshoot	01-Feb-96	11	Cutler, Mark J	Paper Machine Bearing Failure	Tappi J., vol 79, no 2, February 1996.	5	http://www.tappi.org/s_tappi/sec publications.asp?CID=4853&DID=518770	These include glazing, frosting, surface wear, heat discoloration, and fatigue spalling. Some abnormal condition resulting from improper bearing handling, installation, or maintenance may cause or contribute to the failure.	magazine	TAPPI	SKF	PaperMachineBearing Failure	RollerScan	doc and pdf	07-Dec-09	
485		SPC;paper	01-Jun-90		Cutshall, K.	The Nature of Paper Variation	Tappi J., vol 73, no 6, Jun 1990				magazine	TAPPI						
2973	o	pressurized_gravure;coating	21-Oct-02		Dages, Robert	Features of Pressurized Gravure Coating	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL	Kroenert					
3241	o	winding;custom;design;transfer	24-Oct-04		Dages, Robert	Sophisticated Winding Technology	AIMCAL Fall Tech Conf, Charleston, October 24-27, 2004					AIMCAL	Kroenert					
488		roll;vibration	10-Nov-75		Dahl, C.B.	Winder Roll Bouncing Vibration Reduction												
5459		coating;opp;fil	27-Mar-96	12	Dale, Ralph H	Cost Improvements Through Use of Oriented Polypropylene (OPP) Films	CEMA Shortcourse The Coating and Lamination Process Substrates, Coatings and Equipment, March 27, 1996	2			shortcourse	CEMA	AET Packaging	OPPfilmAET	CtgCema96	doc and pdf	01-Oct-09	
3522	o	roller;alignment	01-Jul-07	3	Dalsanto, Tim	Staying inside the ines	Converting Magazine, vol 25, no 7, pp 34-36, July 2007				magazine	Converting Magazine	Protective Maintenances & Installation					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5702		traction;speed;air_entrainment;roller;cof;diameter	01-Sep-65	3	Daly, David A.	Factors Controlling the Traction Between Webs and Their Rolls	Tappi J., vol 48, no 9, pp 88A-90A, Sep 1965	4			magazine	TAPPI	Beloit	FactorsControllingTraction	WebHandlingScan	doc and pdf	18-Dec-09	
5686		wind;vibration;roundess;paper_property	11-Jan-67	4	Daly, David A.	How paper rolls on a winder generate vibration and bouncing	Paper Trade J, pp 48-51, Dec 11, 1967	4			magazine	Paper Trade J	Beloit	WindVibrationBounceDaly	VibrationScan	doc and pdf	03-Oct-09	
5734		wind;paper;quality;burst;slitter	04-Dec-67	3	Daly, David A.	Study of defects in wound rolls leads to better winding control	Paper Trade J, pp 46-48, Dec 4, 1967	3			magazine	Paper Trade Journal	Beloit	PaperRollQuality	WindGeneralScan	doc and pdf	24-Oct-09	
490	c	wind;roll;vibration	11-Dec-67	4	Daly, David A.	How Paper Rolls on a Winder Generated Vibration and Bouncing	Paper Trade J., Dec 11 1967				magazine	Paper Trade J	Beloit					
491	o	wind;maintenance;rebuild	24-Oct-93	8	Damato, David J.	Why Optimize the Winder? A Practical Approach to Optimizing and Maintaining Winders	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 267-276, Oct 24-27 1993	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5578&DID=523498	The benefits of winder optimization are many. Optimizing a winder will improve customer acceptance by improving roll appearance, roll structure, and paper runnability.	conference	TAPPI	Rust					
5735		wind;maintenance;training;defect	01-May-94	6	Damato, David J.	Why optimize the winder? A practical approach to optimizing and maintaining winders	Tappi J., vol 77, no 5, pp 183-189, May 1994	2			magazine	TAPPI	Rust	WindOptimizeDamato	WindGeneralScan	doc and pdf	24-Oct-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2993		spreading	01-Oct-02	4	Damour, Jeffrey	Thin Webs without Wrinkles	Paper, Film & Foil Converter, vol 76, no 10, pp 72-74, October 2002	2	http://pffc-online.com/mag/paper_thin_webs_without/	In general, there are at least two excellent solutions to wrinkle problems, but only one — expanding surface spreader rolls — is the preferred choice for converters running thin gauges	magazine	Paper Film Foil Converter	Converter Accessories Corp					
2986	o	spread	21-Oct-02		Damour, Jeffrey	Web Spreading: A tutorial	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL	Converter Accessories Corp					
3034	o	spread	13-Apr-03	5	Damour, Jeffrey	Web Spreading - The science of Web Spreading	CEMA Coating and Laminating Seminar, Chicago, April 15, 2003				shortcourse	CEMA	Converter Accessories CorpConverter Accessories Corp					
3265		tension;control	01-Dec-04	4	Damour, Jeffrey	Web Tension 101	Paper, Film & Foil Converter, vol 78, no 12, pp 39-42, December 2004	1	http://pffc-online.com/mag/paper_web_tension/	For this basic tutorial in the mechanics of web tension control, tension is defined as the force applied to a continuous web of material in the machine direction	magazine	Paper Film Foil Converter	Converter Accessories Corp					
486		roller;cover;design	01-Nov-89		D'Amour, Michael R.	Choosing Rollers	Paper, Film & Foil Converter, vol, 63, no 11, Nov 1989				magazine	Paper Film Foil Converter	American Roller					
487	o	roller;composite	01-Jun-93		D'Amour, Michael R.	Composite Materials Lighten the Load	Converting Magazine, pp 65, 68-69, June 1993				magazine	Converting Magazine	American Roller					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5569		roller;composite;design		9	D'Amour, Michael R. and Carlson, Jim	Customizing Cmposites Maximizes Productivity	internal report	2			report	American Roller	American Roller	CustomizingCompositesAmRoller	RollerScan	doc and pdf	18-Dec-09	
3088		winder;drive;control	01-May-03	12	Dapcevic, D. and Borthwick, K. and Fransen, P.	Structuring of Winder Drive Software: Review of Basic Building Blocks	IEEE Transactions on Industrial Applications, vol 35, no 3, pp 713-724, May/June 1999.											
494	o	wind	18-Oct-92	10	Daul, Michael J.	The Influence of Deinked Fiber to Winding of Newsprint Rolls	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 53-62, Oct 18-21 1992	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5630&DID=516963	The web's coefficient of friction, COF, can be less than optimal increasing risk of crepe wrinkles, bursts and telescoping. More prevalent in North America because of waste paper mix and deinking method used, the COF can be high resulting in vibratio	conference	TAPPI	Metso					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
495	o	wind;belt;roll_structure	06-Oct-96	6	Daul, Michael J.	New Approach to Roll Structure Control with Winding Force	TAPPI Finishing and Converting Conf. Proc., Bal Harbor, FL, pp 73-78, Oct 6-9, 1996	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5386&DID=521554	the limitations of nip-induced wound-in tension is becoming more evident. It becomes evident that the use of WINDING FORCE, an applied torque, to precisely tension the outer surface layers of the roll is the most effective method to build roll structure	conference	TAPPI	Metso					
5895	o	wind;belt;roll_structure	01-Jan-01		Daul, Michael J.	Optimizing Winder Performance	TAPPI, Engineering / Finishing & Converting Conference Proceedings, 2001	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5098&DID=524948	optimizing what you have is typically only a matter of awareness, maintenance, determining problems, causes, and sometimes training. Winding Specialists from manufacturers or independent firms can work with mill personnel to pinpoint areas to be addressed	conference	TAPPI	Metso					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5894	o	wind;belt;roll_structure	01-Jan-03		Daul, Michael J.	New Winding Technology Boosts the Limits of Conventional Winding	TAPPI, Spring Technical Conference Proceedings, 2003	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5067&DID=526608	The first section of this paper provides an update on multi-station winding for the most demanding winding applications. The second section will introduce radical improvements in two-drum and belt-bed winding for higher capacity, and improved runnability	conference	TAPPI	Metso					
3560	o	slitter;laser	06-May-08	1	Daun, Mark	Advances in Laser Processing of Flexible Packaging Materials	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	Preco					
496			11-Jul-88		Davey, A.B. et al	Rubber in Engineering Practice												
3195		safety;standard;regulation	02-Jun-04	1	David Fisher	Elecrtical/Electronic Safety Standards for the Machine: Developments in IEC 204, IEC 61508 and Hamronization with NFPA 79	CEMA Annual Meeting, June 2-4, 2004					CEMA	Rockwell					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2643	o	roll;label;barcode	03-Oct-99	5	Davis-Minik, Phyllis	Using EDI and Barcoding to Track Rolls	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 27-32, October 3-7, 1999	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5187&DID=508494	You can transmit and receive EDI documents with companies such as banks, railroads, customers, and suppliers. The companies you send and receive EDI with are referred to as trading partners	conference	TAPPI						
497		nip;contact;stress	19-Apr-88	19	de Pater, A.D.	On the Reciprocal Pressure Between Two Elastic Bodies												
498		strength;test;biaxial;strength;kraft;paper;tensile;strength;the	09-Jun-88	4	de Ruvo, Alf and Carlsson, Leif and Fellers, Christer	The Biaxial Strength of Paper	Tappi J., vol 63, no 5, pp 133-136, May 1980				magazine	TAPPI						
499	o	sheet;productivity;time_cycle	18-Oct-92	20	Debor, H.	Folio Sheeter Production Analysis	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 109-128, Oct 18-21 1992	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5630&DID=524402	theoretical folio sheeter capacity. The input data for this analysis has the annual sheeter production requirements of paper grades, sheet sizes, finished product form such as skids or reams and the degree of automation	conference	TAPPI						
9828		film;metallize	10-Jun-12		Decker, Wolfgang	High Definition Selective Metallization for Printed Electronics	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Vast Films Ltd					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2988	o	coating;barrier;oxygen;water	21-Oct-02		Decker, Wolfgang et al	Basic Principals of Thin Film Barrier Coatings	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL	Toray					
2998	o	coating;barrier;oxygen;water	21-Oct-02		Decker, Wolfgang et al	Basic Principals of Thin Film Barrier Coatings	Converting Magazine, vol 20, no 12, pp 38-46, December 2002				magazine	Converting Magazine	Toray					
500		flutter;windage	01-Sep-90		DeCrosta, E.F.	Sheet Flutter and Windage Problems on Paper Machines	TAPPI Sheet Flutter and Windage Seminar Proc., Sep 1990					TAPPI						
501		pneumatic;hydraulic;unwind;tension;control	01-Nov-79		Deeg, Rudi F.	New Web Tension Control System Reduces Oscillation	PIMA, vol 61, no 11, pp 27-28				magazine	PIMA	Beloit					
502		automation;slitter;time cycle	11-Oct-81		Deeg, Rudi F.	How to Determine Speed and Degree of Automation for a Winder	TAPPI Finishing and Converting Conf. Proc., 1981				conference	TAPPI	Beloit					
503			01-Jan-65		Deering, Joseph M.	New Concepts for Automatic Strip Guiding for the Metals Industry	Iron and Steel Engineer Year Book, pp 975-982, 1965											
504		spread;bowed_roller;concave_roller;computer;model	01-Dec-89		Delahoussaye, Ronald D.	Analysis of Deformations, Stresses, and Forces in Webs Encountering Spreading Rollers	Ph.D thesis, Web Handling Research Center at Oklahoma State Univ., Dec 1989				thesis	WHRC	WHRC					
505	o	spread;concave_roller;FEM;model	06-Jun-93	20	Delahoussaye, Ronald D. and Good, J. Keith	Analysis of Web Spreading Induced by the Concave Roller	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC	WHRC					
506	o	spread;bowed_roller;FEM;model	06-Jun-93	20	Delahoussaye, Ronald D. and Good, J. Keith	Analysis of Web Spreading Induced by the Curved Axis Roller	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2537		ac:drive;motor	01-Nov-98	4	Delaney, Kevin J.	Application Suggestions for AC Drives	Tappi J., vol 81, no 11, pp 75-78, November 1998	2	http://www.tappi.org/s_tappi/sec publications.asp?CID=4768&DID=514235	Advancing ac drive performance, cost optimization, and demands for energy efficiency are important forces causing this growth. Although ac drives are penetrating some dc drive applications, most growth stems from new applications	magazine	TAPPI						
507		tension;control	31-Aug-98		Deming, Dave	Tension Control in High Speed Converting	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Francisco, Aug 31-Sept 3, 1998	3	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=5282&DID=509622	Presentation covering control of electronic line shaft drive systems, including master/slave relationships, web handling requirements to minimize tension variation, and drive system process control and draw capabilities	conference	TAPPI						
508		regenerative;brake;unwind;drive;power;energy;cost;energy;winder	01-Oct-81	2	Derrick, R.P.	Energy Cost Considerations for Electrical Backstand Winders	Tappi J., vol 64, no 10, pp 57-58, Oct 1981				magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
509		roller;drive;traction	01-Mar-91		Derrick, R.P.	A Method for Calculating the Power Transmitting Ability of Fourdrinier Rolls	TAPPI Short Course, Mar 1991				shortcourse	TAPPI						
510		drive;wiring;plc	01-Mar-91		Derrick, R.P.	Recommended Wiring, Grounding and Shielding Practice for Digital Paper Machine and Winder Drive Systems	TAPPI Short Course, Mar 1991				shortcourse	TAPPI						
511		board;property;strength;life	01-Jan-72		deRuvo, A. and Lundberg, R.	Lifetime of Paperboard at Constant Loading and Varying Climate	SIFI Report No. B131, Stockholm, 1972											
6059	o	sheet;count;stack;pressure	13-Jun-11	7	Desch, M. and Dorsam, E.	Determining the Amount of Sheets in a Stack of Paper by Using a Pressure Stamp	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15	2			conference	WHRC	Technische Universistat Darmstadt					
3717	o	nip;model	07-Jun-09	18	Desch, M. and Dorsam, E. and Kaulitz, T.	Industial Use for the Nip Inducted Effect to Separate Sheets	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC						
5570		roller;rubber_cover;nip_width;footprint;pressure;calculation	01-Oct-78	4	Deshpande, Narayan V.	Calculation of Nip Width Between Elastomeric Cylinders	Tappi J., vol 61, no 10, 115-118, Oct 1978	5			magazine	TAPPI	Xerox	Calculation NipWidthCover	RollerScan	doc and pdf	18-Dec-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9854		roller;air;bearing;friction;guide	14-Jun-12		Devitt, Drew	New Functionalities from Air Bearings Acting on Films	AIMCAL Web Handling Conference, Prague, Jun 14-15, 2012	4		air bearings without contact. Flexible films flow over non-turning “Air Turns” rather than contact rollers. Viscous shear in air films is used for tension control	conference	AIMCAL	New Way Bearings				27-Jul-12	
9870		roller;air;bearing;friction;guide	22-Oct-12		Devitt, Drew	New Functionalities from Air Bearings Acting on Films	AIMCAL Web Handling Conference, Myrtle Beach, Oct 22-23, 2012	4		air bearings without contact. Flexible films flow over non-turning “Air Turns” rather than contact rollers. Viscous shear in air films is used for tension control	conference	AIMCAL	New Way Bearings				27-Jul-12	
513			01-Jan-82		DeVries, Jesse A.	Structure-Oriented Relationships in biaxially Oriented Polyprop	SPE Technical Paper, pp 29,1982											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
514		web_break;runnability;camera;diagnostic	01-Aug-95	8	DeWitte,Jesse A. and Bundschuh, William L. and Petersen, Scott B.	Video Surveillance Troubleshooting at LSPI	Tappi J., vol 78, no 8, pp 103-110, August 1995	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4746&DID=518342	One of the first steps in improving paper machine runnability is to pinpoint where breaks are occurring. Determining the exact location of a web break is becoming more difficult as machine speeds increase. A video surveillance	magazine	TAPPI						
515			01-Jan-82		Dhingra, V.J. et al	The Relationship Between Mechanical Properties and Structure in	SPE Technical Paper, pp 114, 1982											
9905		winder;automation;time_cycle	01-Aug-12	3	Dhugga, Manohar	Recovering time from non-operation work to improve efficiency	Converting Quarterly, qtr 2, 2012	3			magazine	AIMCAL	Rotoflex				
6094		tension;model;resonance	01-Dec-08		Diao, Y	Resonant Frequencies in web lines and filtering of web tension	WHRC MS Thesis, OK State Univ, Dec 2008				thesis	WHRC						
2886	o	waste	22-Oct-01		Dibella, Nancy	Design for Manufcaturing Utlizing Modeling and Optimization to Reduce Waste	AIMCAL Fall Tech Conf, Oct 22-24, 2001					AIMCAL						
516			01-Jan-27		Dickhaut, Charles A.	Sheet Straightener	U.S. Patent #1,634,984 (1927)				patent							

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517		organize;mgt	07-Dec-93	5	Diedrich, Karen K.	The Power of Teams: Improving Quality in the Paper Industry by Involving People	Tappi J., vo 76, no 12, pp 57-61, Dec 1993	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5578&DID=523497	Topics include: the 75/25 Rule for Decision Making; team training and facilitation; process versus task; developing a vision for teams; and management involvement with new teams. Results are drawn from case studies	magazine	TAPPI						
518		nip;model	01-Jan-95		Diehl, Ted	Two and Three Dimensional Analysis of Nonlinear Nip Mechanics with Hyperelastic Formulations	University of Rochester, Ph.D. thesis, 1995											
519	o	calender;roller;nip;deflection;FEM;model	06-Jun-93	18	Diehl, Ted and Stack, Kenneth D. and Benson, Richard C.	A Study of Three-Dimensional Nonlinear Nip Mechanics	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC						
3533	o	flame;plasma;treat	16-Sep-07		DiGiacomo, Joseph D.	Flame Plasma Surface Treating - What's it all About?	TAPPI PLACE Conf, Proc., St Louis, Sept 16-19, 2007	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=11167&DID=558358	Pre-Treating is defined as the application of flame to paper board prior to extrusion coating. Post Treatment is defined as the application of a “controlled” flame to the PE coated paper board or directly to a film substrate	conference	TAPPI	Flynn Burner					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
10107		laser;slit;micro-perforation	01-Dec-14	4	Dillon, John	Advances in laser micro-perforated flexible packaging for extended product shelf life	Converting Quarterly, qtr 4 2014	5			magazine	AIMCAL	Preco					
520		core;chuck;torque	01-Apr-84	2	Diltz, Jack L.	Straight Talk on Spin-Out Solutions	Paper, Film & Foil Converter, vol 58, no 4, pp 74 76, Apr 1984				magazine	Paper Film Foil Converter						
521		brake;core;operation	01-Feb-85	2	Diltz, Jack L.	How to Avoid Core Spin-Out	PIMA, vol 67, no 2, pp 44-45, Feb 1985				magazine	PIMA						
522		machine;installation	01-Aug-98	3	Ditzer, William	Line installations: who's best for the job?	Converting Magazine, vol 16, no 8, pp 116-120, August 1998				magazine	Converting Magazine						
523		convert;machine	01-Apr-90		Djordjevic, D.	Description and Evaluation of Converting Machines	TAPPI Extrusion Coating Short Course, Apr 1990				shortcourse	TAPPI						
524	o	roll_handling	02-Oct-94	5	Djuric, Peter	Automated Electrified Monorail Systems for North American Paper Companies	TAPPI Finishing and Converting Conf. Proc., Chicago, pp 33-36, October2-5, 1994	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5515&DID=522853	carriers are controlled by a central processor. This allows for automated servicing of multiple rewinders and foam wrappers, as well as, selective delivery to order build cells with a significant reduction in required labor	conference	TAPPI						
9957	o	tension;measure	02-Jun-13	10	Dobbs, James N and Carlson, Daniel H	Method for calculating catenary web spans	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	3			conference	WHRC	3M					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2831	o	tension;drive;control;model	11-Jun-01	10	Dobbs, Jim N.	The Effects of Air Entrainment on Vacuum Drive Roller Traction	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC	3M					
526	o	wrinkle;misalign;moment_transfer	18-Jun-95	16	Dobbs, Jim N. and Kedl, Douglas M.	Wrinkle Dependency on Web Roller Slip	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC	3M					
525	o	roller;bearing_drag;measure	01-Jun-97		Dobbs, Jim N. and Kedl, Douglas M.	Measurment and Modeling of Bearing Drag in Idler Rollers	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC	3M					
10043		die_coating	08-Jun-14		Doell, Harald	Optimized Pre-Metered Die Coating Methods and their Advantages for New Coating Applications	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014				conference	AIMCAL	TSE Troller AG					
527		drum;compliant;	03-Aug-70	3	Doerfel, Walter	Use of Swimming Roll Type Drums on a Two-Drum Winder	Paper Trade J., vol 154, no 31, pp 25-27, Aug 3 1970				magazine	Paper Trade J	Beloit					
528		theoretical;experiment;roll structure	01-Oct-80		Doerfel, Walter et al	Theory of Winding	Papier Carton Cellulose, vol 29, no 10, pp 86-90						Beloit					
529	o	slit;blade;ceramic	18-Oct-92	8	Dohr, N.	Advanced Ceramic Material Offers Advantages for Slitting and Sheeting Operations	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 135-142, Oct 18-21 1992	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5630&DID=524406	The use of these ceramic based anvils will be discussed and results of actual applications will be cited.	conference	TAPPI						

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3063	o	flutter;camera	01-Jun-03	8	Doignon, C and Knittel, D (Univ of Strasbourg)	Detection and Characterization of Web Vibrations by Artificial Vision	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC						
530	o	unwind;splice	16-Mar-87		Dollander, Ralph	Amal-75 Automatic Flying Paster	Winding Technology Conf. Proc., Swedish Newsprint Research Center (TFL), Stockholm, Mar 16-171986				conference	STFL						
10038		laser-engraved;gravure;coating;roller	01-May-14	5	Donato, Tony	How laser-engraved ceramic cylinders fit into gravure coating	Converting Quarterly, qtr 2, 2014	4			magazine	AIMCAL	Harper					
3479		roll_handling;ergonomics	01-Mar-07	3	Donberg, Deborah	Keep Moving	Paper, Film & Foil Converter, vol 81, no 3, pp 46-50, March 2007	2	http://pffc-online.com/unprinted_rolls/paper_keep_moving/	a hand-held mechanism that would move rolls of paper and reduce the physical exertion and safety risks of the job.	magazine	Paper Film Foil Converter	Paper Film Foil Converter					
3524		drive;upgrade	01-Jun-07	1	Donberg, Deborah	Driving	Paper, Film & Foil Converter, vol 81, no 7, pp 38-40, July 2007				magazine	Paper Film Foil Converter	Paper Film Foil Converter					
531			01-Jan-34		Donnell, L.H.	A New Theory for the Buckling of Thin Cylinders Under Axial	Transactions of the ASME, vol 56, pp 795, 1934											
532		Stress;Curved-Axis Roller	08-Jul-88		Dowdican, Paul et al	Stress Analysis of a Web Approaching a Bowed Roller	OK. State Univ., WHRC,					WHRC						
533			01-Jun-78		Downes, G.	Press Roll Monitoring	Paper Technology & Industry, pp 205-208, Jun 1978				magazine	Paper Technology						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
534		slit;waterjet	01-Feb-90		Downs, T.	Waterjet Slitter Improves Winder Operations at Stone Container Mill	Pulp & Paper, vol 64, no 2, Feb 1990				magazine	Pulp and Paper						
535		lateral;vibration;belt;frequency;velocity	12-Dec-68	10	Doyle, Eric and Hornung, Kenneth G.		ASME Publication, 69-VIBR-29, Dec 12 1968											
9800		vacuum_dep	10-Jun-12		Dribinskiy, Stanislav	Functional Web Coating: From Food Packaging to Technical Applications	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Fraunhoffer Institute					
536	o	calender;news	18-Oct-92	8	Drier, T. and Schuelke, T.	Calendering of Newsprint with D.I.P.	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 253-260, Oct 18-21 1992	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5630&DID=516944	as technological improvements in fiber processing and political legislation all contribute to this growth of DIP as a paper making raw material	conference	TAPPI						
537		tension;standard;wind;control	01-May-93	3	DuBois, B.B.	Selecting Proper Winding Tension for Various Web Substrates	Tappi J., vol 76, no 5, pp 91-93, May 1993	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5649&DID=516556	This paper gives guidelines for determining tension ranges for various substrates run on todays rather complex converting machine lines. The relationship between web thickness and tension requirements is discussed	magazine	TAPPI						
538		vibration	13-Jun-88	7	Dubowsky, S. and Freudenstein, F.	Dynamic Analysis of Mechanical Systems with Clearances	J of Engineering for Industry, Transactions of the ASME,				magazine							

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
539		paper;buying	01-Mar-98	1	Ducey, Michael J.	What are some tips for buying paper in the 90's	Converting Magazine, vol 16, no 3, pp 38, March 1998				magazine	Converting Magazine						
540		paper;dust;slitting	01-Sep-98	1	Ducey, Michael J.	How Can I Reduce Dust in my operations	Converting Magazine, vol 16, no 9, pp 37, March 1998				magazine	Converting Magazine						
2542		paper;caliper;weight;moisture;profile;quality	01-Dec-98	1	Ducey, Michael J.	How does paper quality affect slitting/rewinding	Converting Magazine, vol 16, no 12, pp 22, December 1998				magazine	Converting Magazine						
2794		slitter;maintenance;down	01-Apr-01	1	Ducey, Michael J.	How can downtime be reduced in slittting/winding?	Converting Magazine, vol 19, no 4, pp 48, April 2001	3	http://www.convertingmagazine.com/article/309780-Q_How_can_downtime_be_reduced_in_slitting_winding_.php	One effective method to reduce downtime in slitting/winding operations is to coordinate the paper grade application with the shear-cutting system. Converters can set up a small program that can accurately predict the knife life of each paper run	magazine	Converting Magazine						
5703		roller;cof;traction;air_entrainment;measurement;calculation	01-Dec-87	58	Ducotey, Keith S	Dynamic Coefficient of Friction Including the Effects of Air Entrainment	OK. State Univ., WHRC, MS Thesis, Dec 87	4			thesis	WHRC	WHRC	DynamicFrictionAirEntrain	WebHandlingScan	doc and pdf	22-Dec-09	important precedent
541	o	friction;traction;roller;drive	01-Dec-87	68	Ducotey, Keith S.	Dynamic Coefficient of Friction Including the Effects of Air Entrainment	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC	WHRC					
542	o	friction;traction;roller;drive	01-Oct-88	36	Ducotey, Keith S.	Measurement of Traction Between Webs and Rollers	OK. State Univ., WHRC, Ph.D. Preliminary Exam					WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
543		friction;traction;roller;drive	01-Jan-93		Ducotey, Keith S.	Tractions Between Webs and Rollers in Web Handling Applications	OK. State Univ., WHRC, Ph.D. thesis, 1993					WHRC	WHRC					
544		friction;traction;roller;drive	01-Oct-96	6	Ducotey, Keith S. and Good, James K.	The Importance of Traction in Web Handling	J. of Tribology, vol 117, pp 679-84, October 1995				magazine		WHRC					
3102		friction;traction;roller;drive	01-Jan-98	6	Ducotey, Keith S. and Good, James K.	The Effect of Web Permeability and Side Leakage on the Air Film Height Between a Roller and Web	Transactions ASME, J of Tribology, vol 120, pp 559-565						WHRC					
3099		friction;traction;roller;drive	01-Jan-99	8	Ducotey, Keith S. and Good, James K.	Predicting Traction in Web Handling	Transactions ASME, J of Tribology, vol 121, pp 1-7, 1999.						WHRC					
2659		roller;traction;measurement	01-Jul-99	7	Ducotey, Keith S. and Good, James K.	Predicting traction in web handling	J. of Tribology, v 121, no 3, pp 618-624, July 1999				magazine		WHRC					
3096		friction;traction;roller;drive	01-Jan-00	9	Ducotey, Keith S. and Good, James K.	A Numerical Algorithm for Determing the Traction Between a Web and a Cirumferentially Grooved Roller	Transactions ASME, J of Tribology, pp 578-584, 2000.						WHRC					
545		winder;drive	01-Apr-95		Dudzinski, M.S.	Understanding Center-Driven Web Winders - Part 1	Power Transmission Design, v 37, no 4, pp 27-31, April 1995											
9910		roll;handling;shipping;packaging	01-Aug-12	3	Duff, Tom	Proper roll protection saves time, money and customers	Converting Quarterly, qtr 2, 2012	3			magazine	AIMCAL	Badger Plug Co					
546		emboss	01-Jul-90		Duffy, Alan	Speciality Embossers	British Paper Machine, Jul 1990											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5736		wind;maintenance;roller;alignment	01-Jun-96	5	Dunn, James and Allen, Donald and Carter, Michael and Pepin, Stephen and Leonard, Wiliam	Precision Alignment of Winders	TAPPI J, vol 79, no 6, pp 67-71, Jun 1996	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4863&DID=518038	Precision optical tooling typically provides the stringent tolerances required for efficient operation. Using this equipment and specialized optical inspection techniques	magazine	TAPPI	OASIS	WinderAlignOasis	WindGeneralScan	doc and pdf	25-Oct-09	
547	o	roller;winder;align	15-Oct-95	6	Dunn, Jim M. and Pepin, S. and Allen, D. and Leonard, W. and Carter, M.	Precision Alignment of Winders	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 119-124, Oct 15-18, 1995	3	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5460&DID=521778	Alignment of winders within stringent tolerances is necessary for achieving optimum operating speeds while minimizing roll defects and web breaks. These tolerances can best be achieved	conference	TAPPI	OASIS					
5518		draw;transfer;peel;vacuum_box	01-Jan-93	4	Dunn, Michael P. and Harke, John F.	Wet Sheet - Open Draw Transfers Wet Process Nonwoven Lines	Tappi J., vol 76, no 11., pp 225-229, Nov 1993	4	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5591&DID=523750	wet process mat lines producing fiberglass mats and sheets comprised of synthetic fibers. These open draw transfers are the cause of many operational problems and sheet quality defects	magazine	TAPPI	Valmet	OpenDrawTransfers	MiscScan	doc and pdf	24-Dec-09	unusual topic

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2735		film;tension;troubleshooting	28-Aug-00	7	Dunn, Thomas	Trouble Shooting for Plastic and Metallized Film	TAPPI Polymers, Laminations and Coatings Conf. Proc., pp 807-813, Chicago, Aug 28-31, 2000	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5151&DID=523228	converting processes to reshape and deform can be quantified with standard laboratory tests and understood in terms of the tensile properties of materials	conference	TAPPI						
5931		tension;drive;control;maintenance;upgrade	19-Apr-10		Durfee, Scott	Performance Increase in Existing Slitter/Rewinders by Upgrading Controls	TAPPI PLACE Conf, Albaquerque, Apr 20-22, 2010	2			conference	TAPPI	Maxcess					
550		slit;waterjet	01-Oct-95	2	Duschene, Stephanie	Corrugated Cushio Packaging goes under the Water Knife	Converting Magazine, pp 44-45, October 1995				magazine	Converting Magazine	Converting Magazine					
6117		roller;curvature;wrinkle;model	01-Jan-97		Duvall, M.	A Study of Web Wrinkling Due to Roller Curvature	Report, WHRC, OK State Univ, 1997				report	WHRC	WHRC					
6095		tension;model;resonance;backlash	01-Dec-05		Dwivedula, R.V.	Modeling the effects of belt compliance, backlash and slip on web tension and new methods for decentrelized control	WHRC PhD Thesis, OK State Univ, Dec 2005				thesis	WHRC						
6096		tension;model;roller;traction;slip	01-Nov-05		Dwivedula, R.V. and Pagilla, P.R.	Modeling of web slip on a roller and its effect on web tension dynamics	Proc of the ASM Int'l Mechanical Engineering Congress and Exposition, Nov 2005				conference	WHRC						
3062	o	tension;control;model;dancer;active	01-Jun-03	8	Dwivedula, R.V., and Zhu, Y.L, and Pagilla, P.R.	A comparitive Study on Active and Passive Dancers Used for Attenuation of Web Tension Disturbances	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
551		unwind;brake;drum;disk;regenerative;brake	02-Oct-78	6	Dwyer, R.J.	Unwind Brake Study Interim Report	TAPPI Finishing and Converting Conf. Proc., 1978				conference	TAPPI						
552		moisture;sorption;box;packaging;model;experiment	01-Jul-94	7	Eagleton, Danny G. and Marcondes, Jorge A.	Moisture-sorption isotherms for paper-based components of transport packaging for fresh produce	Tappi j, vol 77, no 7, pp 75-81, July 1994				magazine	TAPPI						
3428	o	film;extrusion;troubleshooting	18-Sep-06		Ealer, George	Troubleshooting the Film Extrusion Process	TAPPI PLACE Conf, Cincinnati, September 17-21, 2006				conference	TAPPI	Self					
553	o	sheet;duplex	06-Oct-91	10	Ebel, Thomas J.	Modern Technology Makes Duplex Sheeting a Valuable Alternative	TAPPI Finishing and Converting Conf. Proc., Houston, pp 213-222, Oct 6-10 1991	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5678&DID=516362	Most coated board machines with significant sheet production had Duplex cutters installed at the end of the machine. For a variety of reasons, narrower width precision sheeters later became the trend	conference	TAPPI	Lamb-Pasaban					
5519		sheeting;slitting;stacking;unwind;decurl	01-Oct-92	7	Ebel, Thomas J.	Modern Technology Makes Duplex Sheeting a Valuable Alternative	Tappi J., vol 75, no 10, pp 165-171, Oct 1992	3			magazine	TAPPI	Lamb-Pasaban	DuplexSheetingEbel	MiscScan	doc and pdf	24-Dec-09	unusual topic

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2653	o	sheeter	03-Oct-99	8	Ebel, Thomas J.	Flexible System of Discharging, Handling, Packaging and Stacking of Reams that are Discharged Directly from the Sheeter	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 167-174, October 3-7, 1999	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5187&DID=508491	This paper describes a very flexible system of discharging, handling, packaging and stacking of reams that are discharged and fed directly from a folio sheeter. Special semi-automatic ream	conference	TAPPI	Lamb-Pasaban					
555		tension;control;dancer;load_cell	01-Jan-93		Ebler, N.A. et al	Tension Control: Dancer Rolls or Load Cells	IEEE Transactions on Industry Application, vol 29, no 4, 1993											
5460		coating;photocure;epoxysilicone	27-Mar-96	46	Eckberg, Dr. Richard P	Advances in Photocurable Epoxysilicones	CEMA Shortcourse The Coating and Lamination Process Substrates, Coatings and Equipment, March 27, 1996	2			shortcourse	CEMA	GE Silicones	PhotoCure Epoxy	CtgCema96	doc and pdf	01-Oct-09	
6099		tension;control;dancer	01-Nov-87	3	Eddens, G.R.	A Dancer Primer: Controlling Web Tension	Paper, Film & Foil Converter, vol 61, no 11, pp 87, 70-72				magazine	Paper Film Foil Converter						
556		tension;control	01-Feb-90		Eddens, G.R.	Tensional Critical for Converting Process	Paper, Film & Foil Converter, vol 64, no 2, Feb 1990				magazine	Paper Film Foil Converter						
557		flutter	01-Sep-90		Edgar, Clement B. Jr	Controlling the Web in the Dryer	TAPPI Sheet Flutter and Windage Seminar Proc., Sep 1990					TAPPI						
558		felt;fourdrinier;drying;drying;;computer;automation;PM;roll;qu	01-Jun-74	4	Edgar, Clement B. Jr. and Jefferis, Raymond P. III	Computer Control of Tension and Lateral Position of Wires and Felts	Tappi J., vol 57, no 6, pp 113-116, Jun 1974				magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2623		curl;ai;model	01-Jul-99	7	Edwards, Peter	Paper Curl Prediction and Control Using Neural Networks	Tappi J., vol 82, no 7, pp 145-151, July 1999	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4861&DID=519065	This paper describes the application of artificial neural network techniques to the papermaking industry, particularly for the prediction of paper curl.	magazine	TAPPI						
3258	o	idler;roller;design;speed	24-Oct-04		Eggen, Peter	Idler Rolls for High Speed Applications	AIMCAL Fall Tech Conf, Charleston, October 24-27, 2004					AIMCAL	Webex					
3216	o	idler;rollers	25-Oct-04	1	Eggen, Peter	Idler Rolls for High Speed Applications)	AIMCAL Fall Tech Conf, Charleston SC, Oct 24-27, 2004					AIMCAL	Webex					
3418	o	roller;balance;vibration	01-Aug-06	6	Eggen, Peter	Satisfying the need for speed	Converting Magazine, vol 24, no 8, pp 38-44, Aug 2006	3	http://www.convertingmagazine.com/article/310117-Satisfying_the_need_for_speed.php	any roll should be capable of handling high speeds. Several factors must be considered first, however, before increasing line speed.	magazine	Converting Magazine	Webex					
3762		wind;web_handle;contract;test;pilot;lab	01-Nov-09	3	Eggen, Peter	Get a Grip on Your Web	Paper, Film & Foil Converter, vol 83, no 11, pp 38-40, Nov 2009	3	http://pffc-online.com/web_handling/tension/paper-grip-on-web-1109/	Vacuum rollers are designed to deliver unique, highly effective controls with only one-sided web contact	magazine	Paper Film Foil Converter	Webex					
5991		roller;bearing;heat;design	01-Dec-10	1	Eggen, Peter	Idlers in Heat	Paper, Film & Foil Converter, vol 84, no 12, pp 10, Dec 2010	5			magazine	Paper Film Foil Converter	Webex					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
559		guide	01-Jan-91		Ehrhardt and Leimer	Microprocessor Control for Complex Exercises in Web Guding	Chemiefasern/Textilindustrie, 41/93(1)											
560		wind;drive;AC	01-Sep-90		Eikenberry, Michael and Brink, Kenneth	AC Winder Drive Systems	TAPPI Engineering Conf. Proc., Sep 1990	3	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5720&DID=515580	adjustable frequency AC drives, and in particular how they would perform in a Winder application. Selecting a DC braking generator motor has traditionally been a challenge for the motor designers	conference	TAPPI	Green Bay Packaging and Allen-Bradley					
5737		wind;tension;drive;control;AC_vector	01-Apr-91	6	Eikenberry, Michael and Brink, Kenneth	Adjustable-frequency ac winder drive system	Tappi J, vol 74, no 4, pp 183-188, April 1991	3			magazine	TAPPI	Green Bay Packaging and Allen-Bradley	WinderACdrive	WindGeneralScan	doc and pdf	25-Oct-09	
562		tension;print	01-Jul-90		Ekola, K.	Tension in Flexographic Machines II	Euro Flexo Mag, Jul-Aug 1990				magazine							
563		tension;control;computer	01-Oct-91		Ekola, K.	Computers and Tension Control	Flexo, Oct 1991				magazine							
564		tension;control;model	01-Jan-77	16	Ekong, I. E.	Analysis of Modeling Techniques in Web Control Systems	Proc. The Technical Assoc. of the Graphics Arts, pp 350-365, 1977											
5542		moisture;temperature;humidity;ream;wrinkle	01-Mar-90	4	Eldred, Nelson R	Changes in Temperature and Relative Humidity Directly Affect Paper	GATFWORLD, vol 2, no 3 pp 39-42, March 1990	3			magazine	GATF	self	MoistureTempHumidityPaper	MoistureScan	doc and pdf	17-Sep-09	
565		felt;compression	01-Aug-91		El-Hosseiny, F.	An Equation for Press Felt (Z) Compression	Tappi J., vol 74, no 8, Aug 1991				magazine	TAPPI						
566		stress-strain;strength;paper;model	01-Dec-94	5	El-Hosseiny, F.	The Effect of Sheet Densification on the Shape of its Stress-Strain Curve	J. of Pulp and Paper Science, vol 20, no 12, December 1994				magazine	J Pulp and Paper Science						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
569		property	02-Nov-66		Elias, T.C.	An Investigation of the Compression Response...	Tappi 21st Engineering Conference, November 3, 1966.					TAPPI						
570		winder;history	23-Aug-82	3	Elliot, Jack	Action for Survival	Paper, vol 198, no 2, pp 40				magazine	Paper						
571	o		21-Sep-97	2	Ellis, Stephhen E.	Jumbo Rolls Rountable Discussion	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 7-8, September 21-24, 1997				conference	TAPPI						
567		tension;measurement;experiment;pnematic;electronic;	01-Jan-76	271	El-Sayed, Ahmed	Critical Analysis of Portable Web Tension Measuring Equipment	Loughborough University of Technology 1976											
2864		trim_handling	26-Aug-01		Embley, Thomas	How to Convert Trim Removal Challenges to Solutions	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Diego, Aug 26-30, 2001	4	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5114&DID=524888	five available solutions: Manual Operations, Winding, Venturi, Cutter/Fans, and Chopper Fans	conference	TAPPI						
572		calender;bar	01-Jul-85	6	Emmanuel, Andrew	Some Experiences with Calender Barring on a Newsprint Machine and Diagnosis of Roll Corrugations	Appita, vol 38, no 4, pp 269-274, July 1985				magazine	APPITA						
5486		material;paper;friction;cof;crepe_wrinkle	01-Feb-95	5	Emmanuel, Andrew and Collins, Nicholas J.	Paper Mill Frictionizing Trials using chemical additives to increase layer to layer coefficient of friction	Appita, vol 48, no 2, pp 129-133, February 1995	4			magazine	APPITA	Valmet and Australian Newsprint	PaperFrictionizingChemical	MaterialScan	doc and pdf	29-Dec-09	unusual
2901	o	static;hazard;safety	22-Oct-01		Emmes, William	Electrostatic Hazard Risk Management	AIMCAL Fall Tech Conf, Oct 22-24, 2001					AIMCAL						
9935		razors;slitting;brush;roller	01-May-13	2	Enchelmaier, Scott and Evans, Clyde	How rotating cylinder brushes can assist slitting, perforating	Converting Quarterly, qtr 2, 2013	4			magazine	AIMCAL	Industrial Brush and Finzer Rollers					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
10094		roller;brush;slitting;perf	20-Oct-14		Enchelmaler, Scott	Back-Up Brushes Support for all your Converting Needs	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014	3			conference	AIMCAL	Industrial Brush Co					
574		unwind;tension;control	01-Sep-66	6	Endersby, D. C. and Zucker, E.	Direct Tension Control by Strain Gauges and Disc Brakes for Rewinders	Pulp and Paper Magazine of Canada, vol 67, no 9, pp 393-398, September 1966				magazine	Pulp and Paper Canada						
575		guide	31-Aug-98		Engledow, Eddie	Web Handling Solutions	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Francisco, Aug 31-Sept 3, 1998	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5282&DID=509409	An unwind guide shifts the unwind roll stand laterally to position the web edge at a predetermined position. A Shifting Idler is required to maintain a constant web plane	conference	TAPPI						
576	o	calender	15-Oct-95	6	Enomae, T. and Huang, T. and LePoutre, P.	Softcalendering: Effect of Temperature, Pressure and Speed on Sheet Properties	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 169-174, Oct 15-18, 1995	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5460&DID=521815	soft-calendered with two nips at two levels of roll temperature (120 and 177 ºC), nip load (175 and 350 kN/m) and web speed (760 and 1220 m/min). The results of a 2(3) factorial design	conference	TAPPI						
577		guide	01-Dec-91		Erhardt & Leimer GmbH	Web Guiders for Crease-free Fabric Running	Textil Praxis, vol 46, no 12											
578		tissue;soft;strength	01-Apr-91		Erikson, J. A.	Tissue Makers seek Softness and Strength	PIMA, Apr 1991				magazine	PIMA						
579		wind;tissue	01-Apr-92		Erikson, J. A.	Winding of Tissue	TAPPI Tissue Runnability Seminar, Apr 1992				shortcourse	TAPPI						

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581		curl	01-Jan-87	5	Eriksson, L.E. and Cavlin, S. and Fellers, C. and Carlsson, L.	Curl and Twist of Paperboard - Theory and Measurement	Nordic Pulp and Paper Research J., vol 2, no 2, pp 66-70, 1987				magazine							
5718		wind;density;measure;design	01-Jan-82	21	Eriksson, Leif G and Lydig C and Viglund JA and Komulainen, Pekka	Measurement of paper roll density during winding	Internal Report	3			report	STFL	STFL and Wartsila (Metso)	MeasureDensityEriksson0	WindDensityScan	doc and pdf	07-Oct-09	
5717		wind;density;measure;design	01-Jan-83	4	Eriksson, Leif G and Lydig C and Viglund JA and Komulainen, Pekka	Measurement of paper roll density during winding	Tappi J., vol 66, no 1, pp 63-66, Jan 1983	4			magazine	TAPPI	STFL and Wartsila (Metso)	MeasureDensityEriksson	WindDensityScan	doc and pdf	07-Oct-09	
583		wind;density;roll;tension;quality control;defect;tightness;c		18	Eriksson, Leif G, Lydig, C. and Viglund, J.A. and Komulainen, P.	Measurement During Winding of Paper Roll Density Distribution	Report to the Swedish Newsprint Center (TFL)						STFL					
584		density;winder;control;roll;quality control;	01-Apr-83		Eriksson, Leif G.	Computerised Control of Reel Winding Improves Quality' (Datoris	Svensk Papperstidning, no 4, pp 86, Apr 1983				magazine		STFL					
585		tension;runnability	01-Jan-87	20	Eriksson, Leif G.	Web Breaks and Web Tension in Newspaper Printing	TFL International Multidisciplinary Symposium, Lidingo, Sweden, pp 75-96, 1987						STFL					
5520		wind;print;tension;measure	16-Mar-87	17	Eriksson, Leif G.	What Happens to a Paper Roll in the Printing Plant	Winding Technology Conf. Proc., Swedish Newsprint Research Center (TFL), Stockholm, Mar 16-171986	3			conference	STFL	STFL	PaperPrintingEriksson	MiscScan	doc and pdf	22-Sep-09	
5796		wind;rol_handling;stress;roundness;measure;	16-Mar-87	22	Eriksson, Leif G.	Deformations in Paper Rolls	Winding Technology Conf. Proc., Swedish Newsprint Research Center (TFL), Stockholm, pp 55-76, Mar 16-171986	4			conference	STFL	STFL	RollDeformationEriksson	WindMeasureScan	doc and pdf	22-Sep-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
588	o	tension;profile;lateral	19-May-91	29	Eriksson, Leif G.	Measurement and Control of the Tension Distribution Across the Web in a Newspaper Printing Press	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 167-195, May19-22 1991					WHRC	STFL					
580	o	tension;control	01-Jun-97		Eriksson, Leif G.	Disturbances during Reel Change in Paper Machines	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC						
589	o	wind;tension;property;profile	06-Jun-93	18	Eriksson, Leif G. and Hellentin, P. and Johnson, P.	Changes in Web Tension Profiles and Paper Properties During Repeated Rewinding	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC						
590		tension;control	01-Oct-81	12	Eriksson, Leif G. and Larsson, Lars. O.	It pays off to pay attention to web Tension	Newspaper Techniquest, pp 22-33, Oct 1981											
591		fracture;runnability	01-Jan-84		Eriksson, Leif G. and Viglund, J.A.	Fracture Properties and Web Break Frequency of Newsprint	Paper Physics Seminar, STFI, Stockholm, 1984											
592		rebuild;maintenance;automation	17-Oct-77	5	Ernst, James R.	Old Winders Never Die	TAPPI Finishing and Converting Conf. Proc., 1977				conference	TAPPI	Self					
593		maintenance;production;education;defect	22-Oct-79	5	Ernst, James R.	How Preventive Maintenance Can Increase Winder Productivity and	TAPPI Finishing and Converting Conf. Proc., 1979				conference	TAPPI	Self					
594		defect;web break;unwind;brake;winder;brake	06-Oct-85	7	Ernst, James R.	Winder Headaches, from Web Breaks to Web Brakes	TAPPI Finishing and Converting Conf. Proc., 1985				conference	TAPPI	Self					
595			01-Nov-85	1	Ernst, James R.	Air-Cooled Disk Brakes Preferred for Winders	Paper Trade J., vol 169, no 11, pp 38, Nov 85				magazine	Paper Trade J	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
596	o	winder;rebuild;	14-Oct-88	7	Ernst, James R.	Winder Modernization Options	TAPPI Finishing and Converting Conf. Proc., Richmond, pp 163-171, Oct 2-6 1988				conference	TAPPI	Self					
597		wind;rebuild	31-Jan-89		Ernst, James R.	New Options for Old Winders	CPPA Conf. Proc., Montreal, Jan 31 1989				conference	CPPA	Self					
598	o	wind;rebuild	21-Sep-97	17	Ernst, James R.	The Winding Operation - A View from the Machine Floor	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 63-78, September 21-24, 1997	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5326&DID=511931	There have numerous changes in the winder finishing operation brought about by the evolution of technology. The results have created dramatic changes in the capacity and versatlity of the 2-drum winder	conference	TAPPI	Self					
599		air entrainment;foil bearing	01-Jan-68	5	Eshel, A.	Compressibility Effects on the Infinitely Wide, Perfectly Flexible	J. of Lubrication Technology, Transactions of the ASME, pp 221-225, January 1968				magazine							
600		air entrainment;foil bearing	01-Apr-70	4	Eshel, A.	On Controlling the Film Thickness in Self-Acting Foil Bearings	J. of Lubrication Technology, ASME, pp 359-362, April 1970				magazine							
601		wind;model	01-Jan-84		Eshel, A. and Baker, S.	Mechanical Aspects of Archival Storage of Magnetic Tape	Tribology & Mechanics of Magnetic Storage Media Special Publication 16, Am. Soc. of Lubrication Engr, 1984											
602		air entrainment;foil bearing	01-Jan-68	6	Eshel, A. and Wildmann, M.	Dynamic Behavior of a Foil in the Presence of a Lubricating Film	J. of Applied Mechanics, Transactions of the ASME, vol 35				magazine	J Applied Mechanics						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
14145		core	09-Sep-16	1	Essig, Todd	Selecting the Right Core for your Converting Application	AIMCAL Fall US Web Conf, Memphis, Sept 9-12, 2016	1			conference	AIMCAL						
10067		foil;manufacturing;bagginess	08-Jun-14		Eue, Marcus	Foil	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014	4			conference	AIMCAL	Hydro Aluminium Rolled Products, GmbH					
5738		wind;roll;TIR;roundness;density	01-Sep-91	2	Everett, G.R.	Improving Newsprint Reel Structure with Technology and Training	Appita, vol 44, no 5, pp 308-309, Sep 1991	3			magazine	APPITA	Tasman Pulp and Paper	NewsprintRollRoundness	WindGeneralScan	doc and pdf	25-Oct-09	
3111	o	wind;roll;unbalance;vibration	01-Jan-96		Everett, G.R.	Reel Imbalance; its causes and cures	Appita, vol 49, no 1, pp 117, 1996					APPITA	Tasman Pulp and Paper					
3242	o	caliper;gage;measurement	24-Oct-04		Faichine, David	ScalarGauge - A non-contact optical method of measuring the thickness of transparent thin films and coatings	AIMCAL Fall Tech Conf, Charleston, October 24-27, 2004					AIMCAL	Scalar Technologies					
604		spring rate	01-Nov-85	112	Fang, Bin	Rubber Roller Spring Study	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC	WHRC					
605		lateral;guide;model	01-Dec-90		Fang, Bin	Lateral Web Behavior of Interactive Web Spans	OK. State Univ., WHRC, Ph.D. Thesis				thesis	WHRC	WHRC					
2744	o	static	16-Oct-00		Faria, Phil	Static Electricity	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL	Lamart					
3020	o	corona_treat	15-Apr-03	5	Faria, Phil	Surface Treatments: How, Why and What Typ A Converters Point of View	CMM Int'l, T4 Coating Session, Chicago, April 15, 2003						Lamart					
3024	o	unwind;wind	13-Apr-03	5	Fayerman, Alan	Unwinds and Winders	CEMA Coating and Laminating Seminar, Chicago, April 15, 2003				shortcourse	CEMA	Elite Cameron					
269		guide;design	02-Oct-95		Feiertag, Bruce	Film Steering	AIMCAL 1995 Fall Tech. Conf. Proc., Atlanta, Oct 2-4, 1995					AIMCAL						
606		guide	01-Sep-67		Feiertag, Bruce A.	Intermediate Guiding on Steel Strip Processing Lines	Iron and Steel Engineer, Sep 1967						Fife					

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5658		spreader;bowed_roller	01-Oct-81	4	Feiertag, Bruce A.	Selection of Bow for Covered Axis Spreader Rolls	TAPPI Finishing and Converting Conf. Proc., 1981	3			conference	TAPPI	Fife	SelectionBowSpreader	SpreadWrinkleScan	doc and pdf	18-Dec-09	
608		guide;track;design	18-Aug-88	29	Feiertag, Bruce A.	Selecting a Web Guiding System	Converting Machinery/Materials 2nd Conf. Proc., Philadelphia, Oc 17 1979						Fife					
609		spreading;bowed roller;wrinkle	24-Aug-88	24	Feiertag, Bruce A.	Summary Report on the Use of Curved Axis Rolls for Wrinkle Prevention	Fife Internal Memo				report		Fife					
610		training	01-Jan-95	4	Feilen, Lynanne	Working Smarting: A Guide to Training Your Workforce	Converting Magazine, pp 26-30, January 1995.				magazine	Converting Magazine	Converting Magazine					
611		roller;composit;carbon_fiber	01-Sep-95	1	Feilen, Lynanne	Rollers Help Soothe Tension Headaches	Converting Magazine, pp 48, September 1995				magazine	Converting Magazine	Converting Magazine					
612		wind;core;expandable;coreshaft	01-Oct-94	3	Feilen, Lynanne and Donber, Deborah	Shafts Cure Product Damage in Carbonless Paper Operation	Converting Magazine, pp 52-54, October 1994				magazine	Converting Magazine	Converting Magazine					
2626		slitter;positioning	01-Jul-99	1	Feilen, Lynnane	Laser keeps slitting start-up risk-free	Converting Magazine, vol 17, no 7, pp 64, July 1999				magazine	Converting Magazine	Converting Magazine					
2654	o	sheeter	03-Oct-99	8	Felder, Heinz J.	The Next Generation of Folio Sheeters for Paper & Board Applications	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 175-186, October 3-7, 1999	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5187&DID=508488	A new high speed folio sheet cutter is presented. The sheet cutter features a new slitter design resulting in high slitter knife run times, plus a continous high quality of slitting	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3143	o	vacume;traction;roller	26-Oct-03		Fennema, Lee	Vacuum Tension Rolls: How They Work & Where to Use Them (Coating and Converting Resources)	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003					AIMCAL						
3394	o	slitter_rewinder;design;drive	07-May-06	1	Fenney, Lee	Modular slittting machine technologies	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Sigmala					
3568	o	control;actuators	06-May-08	1	Fenney, Lee	Feed Forward Algorithms in Web Conveyance Applications	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	Sigmala					
613		roll structure;	01-Jan-85	3	Fernholz, T.	Eighteen: Vari-Step a Modified Two-Drum Winder for Improved Rolls	TAPPI Calendering Winding Tech. Sem. (Escanaba), pp 77-79					TAPPI						
614		roller;FEM;model	01-Jan-90		Fernside, Richard L.	Granite Roll Analysis	Canadian Pulp and Paper Assoc. Annual Mtg. Proc., Jan 1990				magazine	Canadian Pulp & Paper Ind	Beloit					
615		roller;FEM;model;yankee_dryer;joint corrosion	01-Jul-95	8	Fernside, Richard L.	Yankee Dryer Joint Corrosion: cause, prevention and repair	Tappi J., vol 78, no 7, pp 144-151, July 1995				magazine	TAPPI	Beloit					
616		wind;textile	01-May-91		Ferracialli, E.A.	A Different System of Winding	Revista Textile, vol 5, 1991											
3253	o	plasma;flame_spray;tungsten_carbide;teflon	24-Oct-04		Ferrante, Michael	Coating: It's not just what's on the web!	AIMCAL Fall Tech Conf, Charleston, October 24-27, 2004					AIMCAL						
2763	o	machine;rebuild;thin_gage	16-Oct-00		Ferrante, Mike	Modifying Heavy Gage Machines for Thin Film Applications	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
617	o	calender;strain;model	04-Oct-98	8	Feygin, Vallentin B.	Modeling of Paper Strain in a Calender Nip	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp pp 225-232, October 4-8, 1998	4	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=5255&DID=509157	A nonlinear viscoelastic model was developed for predicting the strain response of paper subjected to a compressive pressure pulse in a calender nip	conference	TAPPI						
2628		calender;nip;strain;model	01-Aug-99	6	Feygin, Vallentin B.	Modeling paper strain in a calender nip	Tappi J., vol 82, no 8, pp 183-188, August 1999	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4749&DID=519073	A nonlinear viscoelastic model was developed for predicting the strain response of paper subjected to a compressive pressure pulse in a calender nip	magazine	TAPPI						
618		calender;caliper;variability;model	01-Jan-86	2	Feygin, Vallentin B. and Rjabincova, A.A.	Alignment of Paper Caliper Variability on a Calender	J of Paper Industry, no 5, pp 21-22, 1986				magazine							
3384	o	rubber:roller;application	07-May-06	1	Field, William	Roll Design and Their Relationship to Production Cost	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	American Roller					
619			01-Jan-57		Fife, Irwin L.	Web Shifting Apparatus	U.S. Patent #2,797,091 (1957)				patent							
620		wind;roll_structure;pressure;measure;fsr	01-May-90		Fikes, M.W.R.	The Use of Force Sensing Resistors to Measure Radial Interlayer Pressures in Wound Rolls	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
621		test;sonic;sensor	01-Jul-90		Fine, S.S.	Sonic Sheet Testing: its use in the Paper Industry	Tappi J., vol 73, no 7, Jul 1990	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4869&DID=519165	sonic sheet testing along with the method for performing an actual test using the TMI SST-250. Ultrasonic data from the test are interpreted in terms of their relationship to physical properties (e.g., tensile, stiffness, and friction	magazine	TAPPI						
622		wind;textile	01-Sep-89		Fischer, J.	Spin/Assembly Winder Now Automated	Chemiefasern/Textilindustrie, Sep 1989											
1429		sheet;staircut	01-Jan-79		Fitzpatrick, Donald	Jog Quality from Paper Sheeters	TAPPI Finishing and Converting Conf. Proc., 1979				conference	TAPPI						
5797		wind;measure;cameron;gap	01-Oct-98	2	Fitzpatrick, Donald P	Measuring the Gap: Roll Structure Analysis	Tappi J., vol 81, no 10, pp 76-77, October 1998	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4767&DID=517585	Maintaining adequate and consistent wound-in tension is the most important component to roll structure. To ensure highest quality, mills need a precise, cost-effective method for measuring wound-in tension	magazine	TAPPI	Beloit	RollGapMeasureFitzpatrick	WindMeasureScan	doc and pdf	22-Sep-09	
3217	o	shear:slitter	25-Oct-04	1	Flannigan, Michael	High Speed Shear Slitting: Controlling Shear Knife Se-up Variables	AIMCAL Fall Tech Conf, Charleston SC, Oct 24-27, 2004					AIMCAL	Maxcess					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
624		paper;property;drying;anisotropy;dielectric;strength;density;fo	01-Oct-82	4	Fleischman, E. H. and Baum, G.A. and Habeger, C.C.	A Study of the Elastic and Dielectric Anisotropy of Paper	Tappi J., vol 65, no 10, pp 115-118, Oct 1982				magazine	TAPPI						
625		roll impact;shipping	17-Oct-82	1	Fleming, Howard E.	Rail Car Impact Studies	TAPPI Finishing and Converting Conf. Proc., 1982				conference	TAPPI						
626		tissue;quality;convert	01-Jan-90		Floyd, J.W.	Tissue Sheet Uniformity and its Impact on the Converter	TAPPI Tissue Seminar				shortcourse	TAPPI						
627		convert;tissue	01-Apr-91		Floyd, J.W.	Tissue Sheet Uniformity and its Impact on the Converter	TAPPI Tissue Runnability Seminar, Apr 1991				shortcourse	TAPPI						
628			20-Nov-80	1	Flynn, J.E.	Jagenberg Dedicates $4.5 Million Plant in Enfield, Conn., for S	Paper Trade J., vol 164, no 22, pp 26, Nov 30 1980				magazine	Paper Trade J						
5521		slit;split;spread	02-Oct-90	6	Focke, Heinze	Apparatus for Separating Webs of Material Into Two Part Webs	US Patent 4,960,234, Oct 2, 1990	3			patent	USPTO	Focke & Co	Separating WebsIntoTwo	MiscScan	doc and pdf	24-Dec-09	unusual topic
2560		inspection;vision;defect;camera	01-Apr-99	3	Fong, Ted	Ten considerations in selecting a web inspection system	Converting Magazine, vol 17, no 4, pp 148-150, April 1999				magazine	Converting Magazine						
3283	o	wmsd;injury;ergonomic;wind;safety;rsi	01-May-05	3	Fontelera, Jorina	Cures for the common converting workplace injuries	Converting Magazine, vol 23, no 5, pp 38-40, May 2005	3	http://www.convertingmagazine.com/article/309172-Cures_for_the_common_converting_workplace_injuries.php	Bend, lift, twist and push, and repeat. These may sound like instructions for an aerobics class, but these can be motions for converting operations, too	magazine	Converting Magazine	Converting Magazine					
3471	o	baggy_web;load-cell;sensor	01-Feb-07	2	Fontelera, Jorina	Double duty	Converting Magazine, vol 25, no 2, pp 34-35, February 2007				magazine	Converting Magazine	ATMI and Dover					
629		control	01-Feb-85	3	Foose, Ralph	Profile Control: Value and Dangers	Pulp and Paper Int., pp 40-41, Feb 1985				magazine	Pulp and Paper Canada						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
630		covered roll	01-Jan-64	8	Foreman, A.R.	Application of Rubber Covered Rolls to Pinch Rolls and Bridles	Iron and Steel Engineer Year Book, pp 646-655, 1964											
631	o	winding;surface;roughness	01-Jun-97		Forest, A. W. and Anderson, V.L.	Film Surface Considerations for Enhanced Winding of Thin Films	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC	Dupont					
632	o	tension;control	01-Jun-97		Forest, A. W. and Bennet, A.N. and Jones, M.R.	Differentially Driven S-Wrap Rolls for Improved Tension Isolation	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC	Dupont					
633		wind;film	02-Oct-95		Forrest, Albert W. Jr	Film Winding / Roll Formation	AIMCAL 1995 Fall Tech. Conf. Proc., Atlanta, Oct 2-4, 1995					AIMCAL	Dupont					
2572	o	winding;model;review	06-Jun-99	26	Forrest, Albert W. Jr	Optimization of Equipment and Process Conditions for Film Winding	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC	Dupont					
2843	o	lateral;model	11-Jun-01	10	Forrest, Albert W. Jr	The Lateral Response and Control of a Multi-Span Web System	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC	Dupont					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
634	o	wind;stack;compression;modulus;roughness	06-Jun-93	14	Forrest, Albert W. Jr.	A Mathematical and Experimental Investigation of the Stack Compression of Films	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC	Dupont					
636	o	wind;air_entrain;layon_roller;model;defect	18-Jun-95	16	Forrest, Albert W. Jr.	Air Entrainment During Film Winding with Layon Rolls	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC	Dupont					
635	o	wind;air_entrain;layon_roller;model	18-Jun-95	20	Forrest, Albert W. Jr.	Wound Roll Stress Analysis Including Air Entrainment and the Formation of Roll Defects	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC	Dupont					
2578	o	wind;model;air_entrain	06-Jun-99	10	Forrest, Albert W. Jr.	A Fully Nonlinear Solutions to the Stresses Inside Wound Rolls	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC	Dupont					
2762	o	lateral;guide;path	16-Oct-00		Forrest, Albert W. Jr.	Multi-Span Analysis o Web Steering Including Span Interactions and all Geometric Considerations	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL	Dupont					
2761	o	lateral;guide;path	16-Oct-00		Forrest, Albert W. Jr.	Web Span Analysis for Web Path Design Including Steering and Alignment Considerations	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL	Dupont					
637	c	wind;roll_structure;defect			Forsberg, Gerald	Emphasis on Better Rolls Means More Attention to Roll Structure	Paper Trade J.				magazine	Paper Trade J	Beloit					
638		control;slitter;spreading;edge guide	24-Mar-69	3	Forsberg, Gerald	Modernization of Two-Drum Winders-1 Modernize Your Winder:	Paper Trade J., vol 153, no 12, pp 34-36, Mar 24 1969				magazine	Paper Trade J	Beloit					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5739		wind;two_drum;maintenance;rebuilt;tension;spread;slit	01-Jan-80	24	Forsberg, Gerald	Modernization of Two Drum Winders	Paper Trade Journal reprint of six articles	2			magazine	Paper Trade J	Beloit	Modern2DrumForsberg	WindGeneralScan	doc and pdf	25-Oct-09	publication dates uncertain
639		slitter;spreader;automation	21-May-84		Forsberg, Gerald	Paper Machine Winders	TAPPI Finishing Short Course (Portland) Notes, pp 19-20				conference	TAPPI	Beloit					
640		time cycle;rebuild;production;control	01-Jan-85	3	Forsberg, Gerald	Thirteen Latest Winding Trends	TAPPI Calendering Winding Tech. Sem. (Escanaba), pp 63-65					TAPPI	Beloit					
641		combining line;winder	01-Jan-85		Forst, J.	Shaftless Winders and Paper Preheating Cylinders	Papip Celuloza, vol 40, no 7-8, pp 137-138, 1985											
642	o	coreshaft;roller;composite	06-Oct-91	13	Fortin, M.B.	Carbon Fiber Composite Tubes Provide Solutions to Heavy Shaft Handling Problems	TAPPI Finishing and Converting Conf. Proc., Houston, pp 245-257, Oct 6-10 1991				conference	TAPPI						
2996		coater;gap;uniformity;measurement	01-Nov-02	4	Foster, Robert and Manning, Bryan	Controlling Coater Gap Uniformity	Paper, Film & Foil Converter, vol 76, no 11, pp 68-71, November 2002	3	http://pffc-online.com/mag/paper_maintaining_high_levels/	the utilization of slot extruder dies to apply a variety of very thin chemical, adhesive, and photographic coatings to a variety of media.	magazine	Paper Film Foil Converter	Capacitec					
6105		tension;profile	01-Jan-99		Fox, J.	Back from the Edge - Mill Experiences on the Problems of Edge Reels,	Newsprint Production and Use - the Future of Newspapers Seminar, London, 1999				conference							
643		flutter;computer;model	01-Jul-90		Fox, Scott J.	Numerical Simulation of Web Dynamics	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
644	o	flutter;computer;model	19-May-91	21	Fox, Scott J. and Lilley, David G.	Computer Simulation of Web Dynamics	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 270-290, May19-22 1991					WHRC						
645		acoustic;velocity;tension	01-Dec-86	48	Francis, Glen D.	Normal Wave Propagation Velocity in a Static Web	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						
6016		gravure;roller;application;design;maintenance		98	Frank Iannuzzi Education Chairman Gravure Technical Association (Inmont Corporation) Warren R. Daum Director of Publication (Gravure Technical Association) J. Michael Adams (State University of New York)	The Gravure Impression Roll	Technical Education Library OF THE GRAVURE TECHNICAL ASSOCIATION, INC.	10			Book	Gravure Technical Assoc		GravureImpressionRoll	BookScan		02-Mar-10	
646		wind;caliper	01-Nov-91		Franklin, F.	Bad Level Reels	Paper Focus, Nov 1991											
647	o	wind;coreshaft;composite	01-Jun-93	3	Franklin, James	Composite Materials Lighten the Load	Converting Magazine, pp 64, 66-67, June 1993				magazine	Converting Magazine						
648	o	computer;control;ergonomics;hmi	06-Oct-96	18	Fransen, P. and Collings, P.	Man-Machine Interface for a Paper Machine Winder	TAPPI Finishing and Converting Conf. Proc., Bal Harbor, FL, pp 43-60, Oct 6-9, 1996	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5386&DID=521551	This paper describes the application of off-the-shelf graphical user inter&ace development software and personal computers to provide the man-machine interface for a Paper Machine Winder	conference	TAPPI	Beloit					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
649		oven;dry;air_float	01-May-83		Fraser, W. A. R.	Air Flotation Systems: Theoretical and Practical Applications	Paper, Film & Foil Converter, vol 57, nos 5-6, May-June 1983				magazine	Paper Film Foil Converter						
9965	o	tension;control;model	02-Jun-13	16	Frechard, Jonathan and Knittel, Domique and Martz, Yannick	Effects of parameter uncertainties on longitudinal web dynamics	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	2			conference	WHRC	University of Strasbourg					
650		control;density;instrument;pneumatic;pressure	05-Apr-88		Frede	Pneumatic Web Tension Control and Regulation	PRP Automation (Antwerp, Oct. 1966), Paper no D5: 10p. (Ger.;E											
651		roll_handling;agv	01-Oct-95	6	Freeh, Randall A.	Parent Reel and Spool Handling with Automatic Guided Vehicles - A case study	Tappi J., vol 78, no 10, October 1995	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4852&DID=518392	spool handling that utilize bridge cranes, rail carts, and tugger/wagon arrangements have inherent costs and limitations as the size and speed of operations grow. Automated guided vehicles provide a feasible alternative	magazine	TAPPI						
652		print;inspect;spc;quality	01-Jan-92		Frey, P.W.	Automatic Inspection of Web Printing with Statistical Process Control	Converting Technology International, 1992											
653		tension;dancer;load_cell;control	01-Oct-97	3	Friedman, Susan	Tension in Transition	Package Printing & Converting, pp 42-44, October 1997				magazine	Package Printing & Converting						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
654		roller;laser;engrave	01-Sep-98	3	Friedman, Susan	In the Groove	Package Printing & Converting, pp 42-45, September 1998				magazine	Package Printing & Converting						
655	o	wrinkle;measurement;roller	01-Jul-87	192	Friedrich, Craig Richard	Stability Sensitivity of a Web Wrinkle on a Cylindrical Roller	OK. State Univ., WHRC, Ph.D. Thesis				thesis	WHRC	WHRC					
5659		wrinkle;roller;buige;model	01-Feb-89	5	Friedrich, Craig Richard	Stability Sensitivity of Web Wrinkles on Rollers	Tappi J., vol 72, no 2, pp 161-165, Feb 1989	5			magazine	TAPPI	WHRC	StabilitySensitivityWrinkles	SpreadWrinkleScan	doc and pdf	18-Dec-09	
657		wrinkle;model	01-Aug-90		Friedrich, Craig Richard	Geometry and Characterization of Wrinkles in Paper	Tappi J., vol 73, no 8, Aug 1990				magazine	TAPPI	WHRC					
658	o	sheet;dust	06-Oct-91	12	Fritz, H. et al	Improving Sheeting Quality with New Dust Control Systems	TAPPI Finishing and Converting Conf. Proc., Houston, pp 229-240, Oct 6-10 1991	4	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5678&DID=516365	methods of dust prevention adopted on sheeters in recent months and outlines how effective these are. Various measuring techniques for determining their efficiency are presented	conference	TAPPI						
3438		coating;ink-jet	23-Oct-06	1	Fros, Per	Ink Jet as a coating method	AIMCAL Fall Tech Conf Proc, Reno, October 22-25, 2006					AIMCAL						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9835		roller;rubber;cover;hardness	22-Oct-12		Frost, Devin	Engineered Elastomeric Materials	AIMCAL Web Coating Conference, Myrtle Beach, Oct 22-24, 2012			Rubbers typically exhibit a constant force per displacement, or durometer. If the process requires something different, a dual-durometer set up is used to achieve a pseudo non-linear effect. However, this still has limitations	conference	AIMCAL	ABBA Roller					
659		statistical;process;control	01-Sep-89		Frost, Paul J.	The Application of Statistical Process Control to Web Products	TAPPI Polymers Conf. Proc, Sept 1989				conference	TAPPI	Self					
5896		statistical;process;control;book	01-Jan-91	143	Frost, Paul J.	The Application of Statistical Process Control to Web Products	PJ Frost Assoicates	10	PJAassociates.com		book	Self	Self	StatControl RollFrost	BookScan	doc and pdf	03-Mar-10	
660		wind;statistical;process;control	30-Aug-95		Frost, Paul J.	Roll Product Sampling	TAPPI Polymers, Laminations and Coatings Conf. Proc., Chicago, August 27-31, 1995	5	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5474&DID=522311	Roll products may be sampled for a multitude of reasons, including Product Disposition, SPC, Design Of Experiments, etc.. Because these products can and do vary in terms of both cross direction and time (machine direction	conference	TAPPI	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
661		spc;wind;quality;measure;book	01-Jan-91		Frost, Paul J. and Gutoff, E.B.	Application of Statistical Process Control to Roll Products	PJ Associates	10			Book	author	Self					
5740		wind;two_drum;roll_structure;stresses	01-Jul-67	6	Frye, Kenneth G.	Winding Variables and Their Effect on Roll Hardness and Roll Quality	Tappi J, vol 50, no 7, pp 81A-86A, July 1967	3			magazine	TAPPI	Beloit Lenox	WindingVariablesFrye	WindGeneralScan	doc and pdf	25-Oct-09	
663		bagginess;burster;defect;density;hardness	01-Dec-67		Frye, Kenneth G.	Winding Variables and [Their Effect on] Paper Roll Quality	GRI Newsletter, no 17, pp 47-66, Dec 1967						Beloit Lenox					
664		sheeter;productivity;quality	17-Oct-82	13	Frye, Kenneth G.	Productivity	TAPPI Finishing and Converting Conf. Proc., 1982				conference	TAPPI	Beloit Lenox					
665		sheeter;machine;design	01-Jun-84	2	Frye, Kenneth G.		PIMA, pp 41, Jun 1984				magazine	PIMA	Beloit Lenox					
666		roll structure;nip;tension;friction	08-Oct-84	8	Frye, Kenneth G.	Evaluation of New Winding Methods and Basic Winding Parameters	TAPPI Finishing and Converting Conf. Proc., 1984				conference	TAPPI	Beloit Lenox					
667		roll structure;tension;nip;geometry	01-Jan-85		Frye, Kenneth G.	The Effect of Multiple Nips on Wound in Tension	Pulp & Paper				magazine		Beloit Lenox					
5741		wind;two_drum;nip;interlayer_slip;caliper	01-Feb-85	5	Frye, Kenneth G.	Today's flexible winding equipment delivers more quality, fewer defects	Pulp & Paper, vol 59, no 2, pp 102-106, Feb 1985	3			magazine	Pulp and Paper	Beloit Lenox	WindingEquipmentFrye	WindGeneralScan	doc and pdf	25-Oct-09	
5742		wind;two_drum;nip;interlayer_slip;caliper	01-May-85	7	Frye, Kenneth G.	New winding methods and basic winding parameters	Tappi J, vol 68, no 5, pp 66-72, May 1985	3			magazine	TAPPI	Beloit Lenox	NewWindingFrye	WindGeneralScan	doc and pdf	25-Oct-09	
670		trouble shooting	06-Oct-85	16	Frye, Kenneth G.	Problem Solving in the Finishing Room	TAPPI Finishing and Converting Conf. Proc., 1985				conference	TAPPI	Beloit Lenox					
671		PM;corrugation;trouble shooting;dishing;offset;interweaving;tel	01-Mar-86		Frye, Kenneth G.	Solving Problems in the Finishing Room	Tappi J., vol 69, no 3, pp 108-112, Mar 1986				magazine	TAPPI	Beloit Lenox					
672		offset;defect;core;splice;offset	01-Jul-86	3	Frye, Kenneth G.	Finishing Defects: Splice Offset	Tappi J., vol 69, no 7, pp 67-69, Jul 1986				magazine	TAPPI	Beloit Lenox					
673		dust;slitter;dust;knife;slitter	01-Aug-86	4	Frye, Kenneth G.	Finishing Defects: Trailing Edge Dust	Tappi J., vol 69, no 8, pp 81-84, Aug 1986				magazine	TAPPI	Beloit Lenox					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5604		runnability;paper;web_break;crepe_wrinkle;core_burst;winding;printing_press	01-Oct-86	4	Frye, Kenneth G.	Finishing Defects: Core Bursts and Crepe Wrinkles	Tappi J., vol 69, no 10, pp 74-77, Oct 1986	2			magazine	TAPPI	Beloit Lenox	CoreBurst CrepeWrinkle	Runnability Scan	doc and pdf	30-Dec-09	
675		slitter ring;slitter;runout;wear;dust;	01-Nov-86	4	Frye, Kenneth G.	Finishing Defects: Slitter Rings and Slitter Runout	Tappi J., vol 69, no 11, pp 98-101, Nov 1986				magazine	TAPPI	Beloit Lenox					
676		spreader;slitter;dust	01-Dec-86	3	Frye, Kenneth G.	Web Separation and Slitter Dust	Tappi J., vol 69, no 12, pp 52-54, Dec 1986				magazine	TAPPI	Beloit Lenox					
677	o	winder;runnability;diagnosis;roll structure;defect	14-Oct-88	23	Frye, Kenneth G.	Runnability in the Press Room and Converters	TAPPI Finishing and Converting Conf. Proc., Richmond, pp 139-162, Oct 2-6 1988				conference	TAPPI	Beloit Lenox					
678	o	runnability	01-Oct-89	23	Frye, Kenneth G.	Runnability in the Press Room (Part 2 of 4)	TAPPI Finishing and Converting Conf. Proc., Kansas City MO, pp 11-32, Oct 1-5 1989				conference	TAPPI	Beloit Lenox					
679	o	wind;book	01-Jan-90	117	Frye, Kenneth G.	Winding	TAPPI Press, Atlanta, 1990	10			Book	TAPPI	Beloit Lenox	WindingFrye	BookScan	doc and pdf	20-Jan-11	
14129	o	lateral;dyanamics;guide	07-Jun-15		Fu, B and Good, James K	Explicit Simulations of Cambered Web Steering	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	university					
9972		roller;lateral;guide	01-Jan-13		Fu, B and Markum, R and Reddy, A and Vaijapurkar, S and Good, JK	Boundary Conditions that Govern the Lateral Behavior of Flexible Webs in Roll-to-Roll Process Machines	ASME J of Computational and Nonlinear Dynamics				journal	ASME						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
14127	o		07-Jun-15		Fu, B and Michal, Neil J	Explicity Simulations of Web Tansport through Process Machines using Periodic Media Analysis Technique	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	university					
9946	o	wrinkle;roller; misalign	02-Jun-13	20	Fu, Boshen and Good, JK	Web wrinkling resulting from moment transfer	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	3			conference	WHRC	WHRC					
3296	o	flat;panel	05-Jun-05	10	Fuchigami, S.	Challenges and Oppportunities in Flat Panel Industry	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC						
9949	o	roller;nip;printing;slip;model	02-Jun-13	19	Fugmann, Uta and Beier, Wolfgang	Longitudinal slip in rolling contact	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	3			conference	WHRC	Chmnitz University of Technology					
5461		coating;solid;lamination	27-Mar-96	12	Full, J.A.	Lamination with Solvent-Free, 100% Solids Laminationg Adhesives for Flexible Substrates: Current Practices and Markets	CEMA Shortcourse The Coating and Lamination Process Substrates, Coatings and Equipment, March 27, 1996	2			shortcourse	CEMA	Morton Int'l	SolidLaminationMorton	CtgCema96	doc and pdf	01-Oct-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3001	o	r&d;coating;web_handling	01-Dec-02	3	Fur, William H	Opportunities in Academia	Paper, Film & Foil Converter, vol 76, no 12, pp 37-39, Decemberf 2002	2	http://pffc-online.com/mag/paper_opportunities_academia/	Interfacial Engineering (CIE) at the University of Minnesota (UofM) and the Web Handling Research Center (WHRC) at Oklahoma State University (OSU).	magazine	Paper Film Foil Converter						
5571		roller;calender;barring;vibration;roundness;nip		14	Futcher, James R.	Calender Barring	CPPA Course Manual Tech Theory and Practice of Papermaking	2			course	CPPA		CalenderBarringCPPAFutcher	RollerScan	doc and pdf	04-Dec-09	unusual
681		guide;edge;lateral;control	29-Mar-65	4	Gallahue, William M.	Web Guiding and Control in the Paper Industry	Paper Trade J., pp 38-41, Mar 29 1965				magazine	Paper Trade J						
682		spreader;bowed roller;bowed roller;spreading;Vari-Bow	01-Feb-74	2	Gallahue, William M.	Curved Rolls Used for Accurate Slit Separation	Pulp & Paper, vol 48, no 2, pp 84-85, Feb 1974				magazine	Pulp and Paper						
3252	o	slitter	24-Oct-04		Gallo, Dominique	SNS he Heart of Understanding and Applying Slitting	AIMCAL Fall Tech Conf, Charleston, October 24-27, 2004					AIMCAL	Mario Cotta America					
3211	o	slitting;theory	25-Oct-04	1	Gallo, Dominique	SNS The Heart of Understanding and Applying Slitting	AIMCAL Fall Tech Conf, Charleston SC, Oct 24-27, 2004					AIMCAL	Mario Cotta America					
3405	o	slitting	07-May-06	1	Gallo, Dominique	Meeting the customers requirements through millwide slitter revisions	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Mario Cotta America					
3450		slitting	23-Oct-06	1	Gallo, Dominique	Understanding laminate slitting	AIMCAL Fall Tech Conf Proc, Reno, October 22-25, 2006					AIMCAL	Mario Cotta America					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5953	o	roller;align;wrinkle	18-May-10	1	Gallou, Dominique	Get Closer to the Design Speed of Your Web Machine - Roll Alignment as a Crucial Factor	Applied Web Handling Conf, AIMCAL AWEB, Rochester, May 17-20	2	http://www.aimcal.org/association/aweb10/abstracts.asp?RECORD_KEY=filename&filename=gallou	The alignment of rolls in web handling and converting processes is a critical step in preventive maintenance	conference	AIMCAL	PRUFTECHNIK	AWEB/AWEB10	AWEB2010	pdf	04-Jun-10	
684		heat_transfer;dry;film	04-Oct-94	20	Gamble, W. Eugene	Heat Transfer Considerations for Thin Films	AIMCAL 1994 Fall Tech. Conf. Proc., Atlanta, pp 269-288, Oct 4-5, 1994					AIMCAL						
683		heat_transfer;layflat	02-Oct-95		Gamble, W. Eugene	Heat Transfer and Flatness	AIMCAL 1995 Fall Tech. Conf. Proc., Atlanta, Oct 2-4, 1995					AIMCAL						
685		rider roller;nip;control;roll structure;drive	22-Oct-79	6	Gangemi, Donald	Rider Roll Technology of Two-Drum Winders	TAPPI Finishing and Converting Conf. Proc., 1979				conference	TAPPI	Beloit Lenox					
686		runnability	01-Apr-92		Ganneval, B.	Runnability	Caractere, Apr 1992											
687		coat;book	01-Jan-73		Gardon, J.L. and Prane, J.W.	Nonpolluting Coatings and Coating Processes	Plenum, NY, 1973											
9795		glass	10-Jun-12		Garner, Sean	Flexible Glass Substrates for Roll-to-Roll Manufacturing	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Corning					
10099		glass	20-Oct-14		Garner, Sean	Roll-to-Roll Flexible Electronic Device Fabrication on Glass Web	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014				conference	AIMCAL	Corning					
688		dry;air_float	14-May-91		Garside, J.	Air Flotation Drying Systems and Web Handling	Release Liner Markets and Technology, May 14 1991											
9995		tension;control;model;dancer	01-Jan-09		Gassmann, V. and Knittel, D. and Pagilla, P.R. and Bueno, M.A.	Unwinding Web Tension Control of a Strip Processing Plant Using a Pendulum Dancer	American Control Conf, 2009				conference							

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6097		tension;control;model;dancer	01-Nov-11		Gassmann, V. and Knittel, D. and Pagilla, P.R. and Bueno, M.A.	Fixed-Order Hinfinity tension control in the unwinding section of a web handling systems using a pendulum dancer	IEEE Trans on Control Systems Technology				conference	WHRC						
3503	o	web;vibration	10-Jun-07	8	Gath, M. and Muftu, S.	Vibration of Two Axially Translating Media Interconnected by Winkler Elastic Foundaton	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC						
6033		headbox;papermachine;maintenance;metrology	01-Dec-94	2	Gavelin, Gunnar	Headboxes and Precision Demands	Papermaker, Dec 1995	3			magazine	Papermaker		HeadboxMetrologyGavelin	MiscScan	pdf	19-Mar-11	
5661		wrinkle;roller;misalignment;model;measurement	01-Oct-88	6	Gehlbach, Lars S and Kedl, Doug M and Good, J Keith	Predicting shear wrinkles in web spans	WHRC Report, Oct 1988	4			report	WHRC	3M and WHRC	PredictShearWrinkleGoodReport	SpreadWrinkleScan	doc and pdf	22-Dec-09	
5660		wrinkle;roller;misalignment;model;measurement	01-Aug-89	6	Gehlbach, Lars S and Kedl, Doug M and Good, J Keith	Predicting shear wrinkles in web spans	Tappi J, pp 129-134	4			magazine	TAPPI	3M and WHRC	PredictShearWrinkleGood	SpreadWrinkleScan	doc and pdf	07-Oct-09	
689		misalign;wrinkle	01-Jun-87		Gehlbach, Lars S. and Good, J. Keith and Kedl, Douglas M.	Web Wrinkling Effects of Web Modeling	Americal Control Conf. Proc., Minneapolis, Jun 1987						3M and WHRC					
690			09-Aug-88		Gehlbach, Lars S. and Good, J.K and Kedl, Douglas M.	Web Wrinkling Effects on Web Modeling	American Controls Conference Proc., June 1987						3M and WHRC					
5662		wrinkle;roller;misalign;model	01-Oct-89	6	Gehlbach, Lars S. and Good, J.K and Kedl, Douglas M.	Prediction of Shear Wrinkles in Web Spans	Tappi J., vol 72, no. 8, pp 129-134, Aug 1989	5			magazine	TAPPI	3M and WHRC	PredictingShearWrinkles	SpreadWrinkleScan	doc and pdf	18-Dec-09	
2929		safety;culture;book	01-Jan-01	304	Geller, E. Scott	Working Safe	Lewis Publishers, Boca Raton, 2nd ed, 2001											

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692	o	calender;roller;nip_impression;test;measure	01-Sep-94	5	Genisot, Tony	Nip Impressions - a tool for troubleshooting and maintaining quality	Tappi J., vol 77, no 9, pp 246-250, September 1994				magazine	TAPPI	Metso					
3406	o	spreading;model	07-May-06	1	Gentile, Glenn T	Predicting web spreading during high speed slitting	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	HP					
5487		material;cof;friction;measure	01-Dec-57	3	George, H.O. and Arnoult, J.E.	The IBM Paper Friction Tester	Tappi J., vol 40, no 12, pp 972-974, Dec 1957	2			magazine	TAPPI	IBM	IBMpaperFriction	MaterialScan	doc and pdf	29-Dec-09	
694		coater;break;video;inspection	01-Oct-96	3	Gerguson, Kelly H.	Bowater's GNP Mill Cuts Coater Breaks with Better Web Inspection	Pulp & Paper, pp 89-91, October 1996				magazine	Pulp and Paper						
2594	o	core;test;measurement;moisture;strength	06-Jun-99	12	Gerhardt, Terry D and Rhodes, David E. and Johnson, Charles G and Wany, Y. and McCarthy, M.	Performance of Paper Tubes	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC	Sonoco					
2818	o	wind;model;core;mandrel	11-Jun-01	10	Gerhardt, Terry D and Rykard, D and Wang, Y	Impact of Mandrel Support on Core EC	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC	Sonoco					
5687		unwind;core;fem;critical_speed;vibration;measurement	01-Jun-93	8	Gerhardt, Terry D and Staples, John F and Lucas, Robert G	Vibrational characteristics of wound paper rolls: experiment and theory	Tappi J., vol 76, no 6, pp 121-128, June 1993	4			magazine	TAPPI	Sonoco and Beloit	VibrationRollUnwindGerhardt	VibrationScan	doc and pdf	03-Oct-09	
695		core;model	01-Apr-90	7	Gerhardt, Terry D.	External Pressure Loading of Spiral Paper Tubes: Theory and Experiment	Transactions of the ASME, vol 112, pp 144-150, April 1990						Sonoco					
696	o	core;radial_pressure;crush;test	01-Feb-94	3	Gerhardt, Terry D.	Radial Crush Takes the Measure of a Core	Converting Magazine, pp 50-54, February 1994				magazine	Converting Magazine	Sonoco					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5522		wind;core;crush;strength;pressure;measurement	01-Feb-94	3	Gerhardt, Terry D. and Kearns, Robert	Radial Crush Takes the Measure of a Core	Converting Magazine, pp 50-52, February 1994	4			magazine	Converting Magazine	Sonoco	CoreCrushMeasureGerhardt	MiscScan	doc and pdf	22-Sep-09	
5815		wind;stress;model;core	01-Jan-92	4	Gerhardt, Terry D. and Qiu, Y.P.	Paper Tube Deformations during Winding Processes	AMD-Vol 145, MD- Vol 35, Mechanics of Cellulosic Materials, ASME 1992	8			magazine	ASME	Sonoco	PaperTubeDeformationsGerhardt	WindModelScan	doc and pdf	27-Nov-09	
698	o	unwind;roll;core;vibration;critical_speed	18-Oct-92	20	Gerhardt, Terry D. and Staples, John F. and Lucas, Robert G.	Vibrational Characteristics of Wound Paper Rolls: Experiment and Theory	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 263-282, Oct 18-21 1992	5	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5630&DID=516951	In this paper, we present measured critical frequencies of wound paper rolls in Rotogravure presses. Frequencies were measured in two manners: (1)dynamically during roll unwinding with ultrasonic sensors and (2) statically with modal impact tests.	conference	TAPPI	Sonoco					
5499		measure;cd_profile;caliper;hardness;backtenders_friend;wind	01-Aug-77	2	Gess, Jerome M. and Segre, George	Cross Machine Direction Profile Measurements and Their Use	Tappi J., vol 60, no 8, pp 117-118, Aug 1977	3			magazine	TAPPI	Weyerhauser	CDprofileMeasure	MeasurementScan	doc and pdf	29-Dec-09	
701		wind;textile	01-Mar-91		Ghosh, T.K. et al	Analysis of Fabric Deformation in a Roll Making Operation	Textile Research J., Mar 1991				magazine	Textile Research J						
5816		wind;stress;model	01-May-92	96	Giachetto, R Matthew	Tension Losses Encountered in Centerwound Rolls	OK. State Univ., WHRC, M.S. Thesis, May 1992	3			thesis	WHRC	WHRC	TensionLossGiachetto	WindModelScan	doc and pdf	23-Dec-09	
3459		light_inspection;web_cleaning	01-Nov-06	4	Gibis, Mark	Properly configured web inspection moves mills ward defect-free status	Pulp & Paper, pp 44-47, Nov 2006.				magazine	Pulp and Paper	Doyle Systems					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3481		web_cleaning	01-Apr-07	4	Gibis, Mark	Spot Less	Paper, Film & Foil Converter, vol 81, no 4, pp 68-71, April 2007	4	http://pffc-online.com/mag/paper_spot_less/	There are several web cleaning technologies available for various converting applications, including static elimination, simple vacuum, multimodal, contact roll, and hybrid systems.	magazine	Paper Film Foil Converter	Doyle Systems					
703	o		15-Oct-95	8	Gibson, R.R. and Bakst, J.D.	Validating Systems Design and Operations with Computer Simulation	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 91-98, Oct 15-18, 1995	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5460&DID=521825	To illustrate and demonstrate the capabilities of the technology, two recent projects - an automated guided vehicle system, and a wrap line modeling study and graphic animation	conference	TAPPI						
704		roller;cover;maintenance	31-Jan-89		Giguere, P.	Care and Maintenance of Polyurethane Roll Covers	CPPA Conf. Proc., Montreal, Jan 31 1989				conference	CPPA						
3390	o	drive	07-May-06	1	Gilbert, William	Methods of diameter calculation, advantages and disadvantages	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Siemens					
3569	o	control;drive;design	06-May-08	1	Gilbert, William	Synchronized Drive Control in Web Handling Applications	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	Siemens					
9859		drive;energy	14-Jun-12		Gilbert, William	Optimizing Drive Systems for Energy Savings	AIMCAL Web Handling Conference, Prague, Jun 14-15, 2012	2			conference	AIMCAL	Siemens				27-Jul-12	

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9868		drive;energy	22-Oct-12		Gilbert, William	Optimizing Drive Systems for Energy Savings	AIMCAL Web Handling Conference, Myrtle Beach, Oct 22-23, 2012			changing roll diameter requires the control system must continuously adapt to the correct spindle speed and effectively handle the changes in roll mass while providing accurate web tension	conference	AIMCAL	Siemens				27-Jul-12	
10085		drive;application;sizing	20-Oct-14		Gilbert, William	Drive System Engineering for Web Fed Machinery	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014	4			conference	AIMCAL	Siemens					
14163		tension;drive;control;flexible	30-May-16	1	Gilbert, William	Control Strategies for Web Handling	AIMCAL Europe Web Conf, Dresden, May 30 - June 2, 2016	3			conference	AIMCAL	Siemens					
14139		wind;drive;diameter;calculator;control	09-Sep-16	1	Gilbert, William	Roll Diameter Requirements in Converting Processes	AIMCAL Fall US Web Conf, Memphis, Sept 9-12, 2016	4			conference	AIMCAL	Siemens					
14089		drive;tension;control;strategy;design	01-Apr-15	4	Gilbert, William B	Drive systems strategies for web-handling	Converting Quarterly, qtr 2, 2015	4			magazine	AIMCAL	Siemens					
5940	o	drive;motor;energy	18-May-10	1	Gilbert, Willliam	Optimizing Drive Systems for Energy Savings	Applied Web Handling Conf, AIMCAL AWEB, Rochester, May 17-20	3	http://www.aimcal.org/association/aweb10/abstracts.asp?RECORD_KEY=filename&filename=gilbert	Several areas should be considered when looking for potential opportunities to reduce energy consumption via the drive system	conference	AIMCAL	Siemens	AWEB/AWEB10	AWEB2010	pdf	04-Jun-10	
2752	o	corona_treat	16-Oct-00		Gilbertson, Thomas	Corona Treating - Common Sense versus Reality	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL	Enercon					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2900	o	corona_treat	22-Oct-01		Gilbertson, Thomas	Corona Treating: Added Energy for Improved Coating Applications	AIMCAL Fall Tech Conf, Oct 22-24, 2001					AIMCAL	Enercon					
3237	o	corona treat	24-Oct-04		Gilbertson, Thomas	The Treatment of Thinner Substrates	AIMCAL Fall Tech Conf, Charleston, October 24-27, 2004					AIMCAL	Enercon					
3244	o	corona treat	24-Oct-04		Gilbertson, Thomas	The Treatment of Thinner Substrates	AIMCAL Fall Tech Conf, Charleston, October 24-27, 2004					AIMCAL	Enercon					
10040		corona_treat	01-May-14	3	Gilbertson, Tom and Plantier, Mark	Blame the corona treater - the truth about watt density, dyne levels & adhesion	Converting Quarterly, qtr 2, 2014	4			magazine	AIMCAL	Enercon					
705		bond;web_handling;nonwovens	01-Oct-91		Gile, G.G. et al	Ultrasonic Bonding and Web Handling	Nonwovens Industry, Oct 1991				magazine							
706		bond;ultrasonic;nonwoven	01-Oct-91		Gill, G.G. and Mengasson, J.	The Principles of Ultrasonic Bonding and Web Handling	Nonwovens Industry, Oct 1991				magazine							
707		roll defect;graphic	11-Nov-73	15	Gilmore, William G.	Report on Roll Defect Terminology - TAPPI CA 1228	TAPPI Finishing and Converting Conf. Proc., 1973				conference	TAPPI	Beloit Lenox					
708		winder;defect;roll structure;picture;	01-Jan-77	108	Gilmore, William G.	Roll Defect Terminology	Roll Defect Terminology, TAPPI Press, 1977						Beloit Lenox					
709	o	drive;computer;control;winder	14-Oct-88	7	Girgash, Matthew E.	Programmable Digital Winder Drives	TAPPI Finishing and Converting Conf. Proc., Richmond, pp 39-46, Oct 2-6 1988				conference	TAPPI	Reliance					
5743		wind;two_drum;digital;drive;control	01-Jul-89	6	Girgash, Matthew E.	Programmable digital winder drives	Tappi J, pp 89-93, July 1989	2			magazine	TAPPI	Reliance	ProgramDigitalWinderDrive	WindGeneralScan	doc and pdf	25-Oct-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
710	o	static;electricity;measure;control	08-Sep-96	10	Giuliano, J.R.	Static Electricity: Cause, Effect and Control on Film Processing Lines	TAPPI Polymers, Laminations and Coatings Conf. Proc., pp 453-462, Boston, Sept 8-12, 1996	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5426&DID=521202	Interference with sensitive electronics, contamination, reduced quality, lost production, operator shocks, fires and explosions are very often the result of uncontrolled static electricity on a film line	conference	TAPPI						
10045		print;coat;electronics	08-Jun-14		Glawe, Andrea	Printing vs Coating Technology - Which Way Printe Electronics Will Go	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014				conference	AIMCAL	Kroenert GmbH					
14133		roll_handling	09-Sep-16	1	Glenn, James	Automated Solutions for Slit Roll Handling	AIMCAL Fall US Web Conf, Memphis, Sept 9-12, 2016	2			conference	AIMCAL	self					
711		roll structure;modulus	01-Jan-78	14	Glockner, Jorg	Improved Roll Quality by Considering the Modulus of Elasticity	Papier und Kunststoff-Verarbeiter, Jan 1978											
3326		cof;friction;slide_angle;pkg;print	01-Jun-05	3	Gloor, Dr. Paul E.	Slide Angle, Truth or Myth?	Paper, Film & Foil Converter, vol 79, no 6, pp 78-81, June 2005	3	http://pffc-online.com/mag/truth_or_myth_0605/	The tendency for package cartons to slide past each other can be an important property in many critical applications. This property often is measured and reported as the slide angle.	magazine	Paper Film Foil Converter	Johnson Polymer					

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10054		slitter;blade;diamond;wear	08-Jun-14		Gluche, Peter	Diamond Blades - Exceptional Wear Resistance and Extremely Sharp	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014				conference	AIMCAL	GFD Gessellschaft fuer Diamantprodukte mbH					
3032	o	safety	13-Apr-03	5	Godfey, Jerry	Extrusion Coating & Laminating Safety	CEMA Coating and Laminating Seminar, Chicago, April 15, 2003				shortcourse	CEMA						
2746	o	safety	16-Oct-00		Godfrey, Jerry	Equipment Safety	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL						
712	o	calender;soft_nip	02-Oct-94	21	Goebel, Konrad and Kankaapaa, Kari	Producing High Gloss Paper Grades with 4-Nip Soft Calender	TAPPI Finishing and Converting Conf. Proc., Chicago, pp 46-64, October2-5, 1994				conference	TAPPI						
3142	o	optical;vision;inspection	26-Oct-03		Goeckel, Werner F.	Quality Measurement of Film and Plastic Sheet with Vision Inspection (Lasor Systronics)	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003					AIMCAL						
2959		curl;film	09-Sep-02		Goetz, Walter	Curl in Multilayer PA-PE Film	TAPPI PLACE Conf. Proc., Boston, Sept 9-12, 2002	4	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5090&DID=510907	Curl can be minimized by	conference	TAPPI						
3136	o	coater;pilot_line	26-Oct-03		Goglin, Larry	Setting Up a Pilot Line	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003					AIMCAL	Self					

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9843		coat;cost;economics	22-Oct-12		Gogolin, Larry	Optimizing Coating Costs	AIMCAL Web Coating Conference, Myrtle Beach, Oct 22-24, 2012			We will look at various areas in the coating process and it's support areas, for opportunities in cost reduction. Some areas for review are the coater itself, quicker startups and changeovers, fluids, raw materials, drying and yields	conference	AIMCAL	self					
713		safety;workmans_comp;costs	01-Nov-97	3	Goldberg, Allen T.	Taming the Cost of Accidents while Improving Safety	Tappi J., vol 80, no 11, pp 65-67, November 1997	3	http://www.tappi.org/s_tappi/sec publications.asp?CID=4755&DID=517982	When the financial people—not the safety people—reported to management, they said,"The problem isn't that each case costs too much, the problem is that there are too many cases."	magazine	TAPPI						
5605		runnability;paper;web_break;fracture;flaw	15-Jul-86	5	Goldschmidt, John and Wahren, Douglas	On the Rupture Mechanism of Paper	Svensk Papperstidning, vol 71, no 13-14, Jul 15 1986	3			magazine	Svensk Papperstidning	Swedish Forest Products Lab	RuptureMechanicsPaper	Runnability Scan	doc and pdf	30-Dec-09	
715		winder	01-Feb-83		Gollob, David	Speed Vs. Productivity--A Look at a Winder For Today	Paper, Film & Foil Converter, vol 57, no 2, Feb 1983				magazine	Paper Film Foil Converter						

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2823	o	rubber;nip;roller;hardness;model	11-Jun-01	10	Good, J Keith	Modeling Rubber Covered Nip Rollers in Web Lines	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC	WHRC					
2819	o	wind;model;nip	11-Jun-01	10	Good, J Keith	Modeling Nip Induced Tension in Wound Rolls	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC	WHRC					
5452		book;winding;roll_structure;theory;model;measurement;hardness;stresses	01-Jan-08	398	Good, J Keith and Roisum, David R	Winding: Machines, Mechanics and Measurements	desTECH and TAPPI PRESS, 2008	10			Book	desTECH and TAPPI	WHRC and self	WindingMachineMechanicsMeasurementDraft	BooksRoisumDrafts/BooksWinding/GoodRoisum	doc	23-Oct-09	
716	o	misalign;wrinkle;model	01-Oct-88	27	Good, J. Keith	Prediction of Shear Wrinkles in Web Spans	OK. State Univ., WHRC, Internal Report				report	WHRC	WHRC					
717	o	wind;computer;model	01-Oct-91	21	Good, J. Keith	Winder Version 2.0	OK. State Univ., WHRC, internal computer program					WHRC	WHRC					
718	o	wind;computer;model	01-Feb-92	31	Good, J. Keith	Winder Version 2.1	OK. State Univ., WHRC, internal computer program					WHRC	WHRC					
719	o	web;handling;research	24-Oct-93	12	Good, J. Keith	The Web Handling Research Center	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 249-260, Oct 24-27 1993	2	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5578&DID=523492	The Web Handling Research Center (WHRC) began performing research in 1986 concerning the various aspects of transporting continuous media through web processes	conference	TAPPI	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
720		wind;model	01-Sep-94		Good, J. Keith	The Science of Winding Paper Rolls	Transactions of the Tenth Fundamental Research Symposium held at Oxford, vol 2, September 1993						WHRC					
735		air_entrainment	02-Oct-95		Good, J. Keith	Air Layer Control During Winding/Handling	AIMCAL 1995 Fall Tech. Conf. Proc., Atlanta, Oct 2-4, 1995					AIMCAL	WHRC					
721	o	shear;model	01-Jun-97		Good, J. Keith	Shear in Multispan Web Systems	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC	WHRC					
3310	o	wind;model	05-Jun-05	10	Good, J. Keith	The Abilities and Inabilities of Wound Roll Models to Predict Defects	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC	WHRC					
3554		winding;models	06-May-08	1	Good, J. Keith	Winding Models - Using Science o Profit	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	WHRC					
3067	o	wrinkle;model	01-Jun-03	8	Good, J. Keith and Beisel, J.A.	Buckling of Orthotropic Webs in Process Machinery	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3725	o	wrinkle;model	07-Jun-09	35	Good, J. Keith and Beisel, J.A. and Yurteu, H	Predicting Web Wrinkles on Rollers	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC	WHRC					
5663		wrinkle;roller; misalign;model	01-Jan-02	32	Good, J. Keith and Beisel, JA	Buckling of Webs in Web Processing Machines Resulting from Roller Misalignment	WHRC Report, date uncertain	5			report	WHRC	WHRC	BucklingWebsRollerMisalign	SpreadWrinkleScan	doc and pdf	24-Dec-09	
3465		roller;misalignment;wrinkle	01-Dec-06		Good, J. Keith and Beisel, Joseph A.	Calculations relating to web buckling resulting from roller misalignment	TAPPI J., Dec 2006	5	http://www.tappi.org/s_tappi/sec_publications.asp?CID=9761&DID=553667	mathematical expressions of plate in stability could be applied to thin webs such as paper that have small but finite plate bending stiffness. In this paper we revisit the subject and expand the theory to encompass the orthotropic properties	magazine	TAPPI	WHRC					
722	o	wind;model;air_entrain	18-Jun-95	18	Good, J. Keith and Covell S.M.	Air Entrapment and Resiodual Stresses in Rolls Wound with a Rider Roll	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC	WHRC					
3086	o	wind;model;two-drum	01-Jun-03	8	Good, J. Keith and Cowan, B.R. and Dolezai, L.E. and Markum, R.	Wound-on-Tension for Two Drum Winders	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
724	o	wind;pressure; measure	19-May-91	8	Good, J. Keith and Fikes, M. W. R.	Using FSRs to Measure Radial Pressure in Wound Rolls	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 32-39, May19-22 1991					WHRC	WHRC					
5817		wind;stress;model;fsr;measure	01-Jun-91	9	Good, J. Keith and Fikes, M. W. R.	Predicting Internal Stresses in Center-Wound Rolls with an Undriven Nip Roller	Tappi J., vol 74, no 6, pp 101-109, Jun 1991	5	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4824&DID=514672	The Force Sensing Resistor (FSRB) is a device which changes resistance in a predictable manner with the application of force on its surface	magazine	TAPPI	WHRC	RollStress NipGood	WindModel Scan	doc and pdf	25-Oct-09	
2579	o	wind;model;wit	06-Jun-99	8	Good, J. Keith and Hartwig, J. and Markum, Ron	A Comparison of Center and Surface Winding Using the Wound-In-Tension Method	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC	WHRC					
725	o	wind;air_entrain;model	06-Jun-93	18	Good, J. Keith and Holmberg, Michael W.	The Effect of Air Entrainment in Centerwound Rolls	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC	WHRC					
3495	o	wit;wind;measure	10-Jun-07	8	Good, J. Keith and Kandadai, B.K. and Marukum R	A new method for Measurement of Wound-inTension in Webs Wound into Rolls	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC	WHRC					
5798		wind;measure; wit	01-Jan-09	7	Good, J. Keith and Kandadai, BK and Markum, R	A New Method for Measurement of Wound-in-Tension in Webs Wound Into Rolls	J Pulp and Paper Science, vol 35, no 1, pp 17-23, 2009	4			magazine	J Pulp and Paper Science	WHRC	MeasureWITgood09	WindMeasureScan	doc and pdf	21-Sep-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5500		measure;tension;profile;baggy;biaxial	01-May-91	8	Good, J. Keith and Magill, Michael A.	A Biaxial Web Tension Transducer	Tappi J., vol 74, no 5, May 1991	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4873&DID=519538	A transducer has been developed to measure the web tension in both the machine and cross-machine directions simultaneously	magazine	TAPPI	WHRC	BiaxialWebTensionTransducer	MeasurementScan	doc and pdf	24-Dec-09	
3516	o	flex;compliant;spreader	10-Jun-07	8	Good, J. Keith and Markum, Ron	The Mechanics of Grooved Flexible Spreader Rollers	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC	WHRC					
727	o	wind;model	18-Oct-92	10	Good, J. Keith and Pfeiffer, J. David	Tension Losses During Centerwinding	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 297-306, Oct 18-21 1992	4	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=5630&DID=517247	centerwinding tests the experimental values of interlayer pressure within the wound roll fell far short of the theoretical values predicted by the models. The experimental pressure profiles	conference	TAPPI	WHRC and self					
5818		wind;stress;model;centerwind	11-Nov-92	12	Good, J. Keith and Pfeiffer, J. David and Giachetto, R. M.	Losses in Wound-on-Tension in the Centerwinding of Wound Rolls	ASME Winter Annual Mtg., AMD vol 149, Anaheim, Nov 8-13 1992	3			magazine	ASME	WHRC and self	LossInWOTcwGood	WindModelScan	doc and pdf	28-Nov-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5441		winder;machine;theory;roll_structure;measurement	01-Jan-08	406	Good, J. Keith and Roisum, David R	Winding: Machines, Mechanics and Measurements	desTECH and TAPPI PRESS	10	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=9039&DID=554811	the definitive book on the science of winding written by noted experts Dr. David Roisum and Dr. JK Good. This three-part book (with supplemental CD-ROM)	Book	desTECH TAPPI	WHRC self	WindingMachineMechanicsMeasurementDraft	BookScan	doc and pdf	21-Dec-09	
2611	o	twist;wrinkle;model	06-Jun-99	14	Good, J. Keith and Straughan, P.	Wrinkling of Webs Due to Twist	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC	WHRC					
729	o	wind;model;crep;star;defect	18-Jun-95	20	Good, J. Keith and Vaidyanathan, N.	The Importance of Torque Capacity in Predicting Crepe Wrinkles and Starring in Wound Rolls	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC	WHRC					
730		wind;model;nip	01-Dec-93		Good, J. Keith and Wu, Zan	The Mechanism of Nip Induced Tension in Wound Rolls	J. of Applied Mechanics, vol 60, no 4, December 1993				magazine	J Applied Mechanics	WHRC					
731	o	wind;model;nip	19-May-91	22	Good, J. Keith and Wu, Zan and Fikes, M. W. R.	Stresses Within Rolls Wound in the Presence of a Nip Roller	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 123-144, May19-22 1991					WHRC	WHRC					
732		wind;model;nip	01-Mar-94		Good, J. Keith and Wu, Zan and Fikes, M.W.R.	The Internal Stresses in Wound Rolls with the Presence of a Nip Roller	J. of Applied Mechanics, vol 61, no 1, March 1994				magazine	J Applied Mechanics	WHRC					
733	o	wind;model;roughness	06-Jun-93	14	Good, J. Keith and Xu, Y.	Computing Wound Roll Stresses Based Upon Web Surface Characteristics	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
734	o	shear;model	01-Jun-97		Good, J. Keith. And Kedl, D.M. and Shelton, J.J.	Shear Wrinkling in Isolated Spans	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC	WHRC					
14107	o	winding;model; thickness;measure	07-Jun-15		Good, James K., Gale, J>W and Mollamahmutoglu, C.	The Impact of Thickness Measurement on Residual Stresses Due to Winding	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	university					
6018		packaging;design;application	01-Jan-11	269	Goodwin, Daniel and Young, Dennis	Protective Packaging for Distribution Design and Development	DesTech Publications, Lancaster PA	10			Book	DesTech	Rochester Institute of Technology and Michigan State University School of Packaging					
736	o	lateral;wrinkle; FEM;model	19-May-91	13	Gopal, H. and Kedl, D. M.	Using Finite Element Model to Define How Wrinkles Form in a Single Web Span Without Moment Transfer	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 291-303, May19-22 1991					WHRC	3M					
737			01-Feb-80		Gordon, B.E.	Measurement of Applied and Residual Stresses Using an Ultrasonic	ISA Transactions, vol 19, no. 2, pp 33, Feb 1980											
14125	o		07-Jun-15		Gordon, S ad MacDonald, W and McKerron, D and Flett, V and Everson, R and Rakos, K, and Jones, Dilwynn P	Polyester Substrate Development for Flexible Electronics	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	DuPont					
738		convert;machine;directory	01-Jan-90		Gormally, R.	Converting Today Annual Directory, European Edition	Angel Publishing, 1990											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
739		wind;model;textile	01-Apr-91		Gosh, T.K. et al	Analysis of Fabric Deformation in a Roll-Making Operation Part II - A Dynamic Case	Textile Research J., Apr 1991				magazine	Textile Research J						
6067		automatic;butt;splice	06-Apr-11		Gotshall, R Joseph	Improved Web Handling through Precise Tension Control & Splicing Accuracy (or the Perfect Butt)	ICE USA 2011 Tech Program	3			conference	ICE AIMCAL	Mtorres					
9866		wind;accumulator;control	14-Jun-12		Gotshall, R Joseph	Reducing Waste Material and Increasing Productivity by Butt Splicing	AIMCAL Web Handling Conference, Prague, Jun 14-15, 2012	3			conference	AIMCAL	M. Torres USA				27-Jul-12	
740		hygro;moisture;expansion;news	01-May-91		Gower, M. and Lindholm, G.	Hygroexpansion of Newsprint as a Result of Water Absorption in Printing Press	TAGA Proceedings, May 1991											
741		nonwoven;optical;inspection;test	01-Sep-95	4	Graf, James E. and Entright, Tomothy and Shapiro, Sanfor I.	Automated Web Inspection ensures highest quality nonwovens	Tappi J., vol 78, no 9, pp 135-138, September 1995	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4741&DID=518353	inspection system can continuously monitor 100% of the web, detect any defects, record the exact location of each, and record an image of the defect for viewing at any time	magazine	TAPPI						
3107		camber;bag;measurement	01-Jan-00		Graff, E.A. and Schneider, B.J. and Matzan, D.R.	Web Material Camber Measurment	US Patent 6,035,259				patent							
3108		camber;bag;measurement	01-Jan-01		Graff, E.A. and Schneider, B.J. and Matzan, D.R.	Apparatus and Method for Measuring the Relative Differential Length in a Sheet of Material	US Patent 6178,657				patent							

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
742	o	sheet	18-Oct-92	6	Graham, Nicholas S.	Quality Improvements for Sheeting in 1992	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 129-134, Oct 18-21 1992	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5630&DID=524403	This paper will focus on first establishing a baseline for quality according to individual mill standards. We will then explore ways in which data and record keeping can be done to formulate an analytical approach.	conference	TAPPI						
743	o		21-Sep-97	4	Graham, Nicholas S. and Marauszwski, Virginia	Remanufacturing Creates New Quality Product	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 53-56, September 21-24, 1997	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5326&DID=511808	A complete remanufacturing of an older sheeter increases speed by replacing gears and pulleys with motors, while a Programmable Logic Controller (PLC) controls most functions	conference	TAPPI						
744		pilot machine;test	01-Feb-86	3	Grandmaison, E.W. and Wagle, D.	Pilot Paper Machines in Industry and Research Organizations	Tappi J., vol 69, no 2, pp 34-36, Feb 1986				magazine	TAPPI						
5719		wind;density;measure;reel	01-Jan-87	11	Granlund, B	Computerized On-Line Fault Detection in Paper Reels	Advances and Trends in Winding Technology, Swedish Newsprint Research Center, pp 167-177, 1987	2			conference	STFL	ASEA	DensityReelGranlund	WindDensityScan	doc and pdf	07-Oct-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
745	o	calender	15-Oct-95	8	Gratton, Michel F.	The Response of Lightly-Filled Groundwood Paper to Calendering	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 179-186, Oct 15-18, 1995	3	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5460&DID=521817	Temperature-gradient calendering yielded lower bulks and roughnesses, higher gloss, less strength losses and lower optical properties than conventional machine calendering	conference	TAPPI						
746	o	roll;deflection;cc;fem;model	06-Oct-96	8	Gratton, Michel F.	3-D Web Deformations from Calendering in a Hard Nip	TAPPI Finishing and Converting Conf. Proc., Bal Harbor, FL, pp 173-180, Oct 6-9, 1996	4	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5386&DID=521548	measured that the greater percentage of recoil takes place within the first hour following calendering, it continues for up to 24 hours. Experience in a mill allowed us to measure in-plane and z-direction sheet properties	conference	TAPPI						
747		web;deformation;calender;model;measurement	01-Apr-97	9	Gratton, Michel F.	Three-Dimensional Web Deformations from Calendering in a Hard Nip	Tappi J., vol 80, no 4, pp 210-218, April 1997				magazine	TAPPI						
748		nip;stress;contact;vibration	01-Mar-72	20	Gray, G.G. and Johnson, K.L.	The Dynamic Response of Elastic Bodies in Rolling Contact	J. of Sound and Vibration, vol 22, no 3, pp 323-342, 1972				magazine							
3424	o	scanner;gage;caliper	18-Sep-06		Graziano, Jim	Critical Role of On-Line Gauging Systems in Extrusion Coating	TAPPI PLACE Conf, Cincinnati, September 17-21, 2006				conference	TAPPI	EGS					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
749		material;measure;print	01-Feb-92		Greaves, P.	The Practical Measurement of paper Condition	Professional Printer, vol 36, no 2											
5636		slit;dust;count;test;qa	01-Jan-98	1	Green, Chalres	PTN154 Loose Debris Evaluation Method	unknown	4			unknown	Charles Green	frontiernet	LooseDebrisMeasure	SlitScan	doc and pdf	14-Sep-09	
9782		curl;folder;design;test;paper	01-Jan-08	150	Green, Charles	Green Charles Curl Folder	unknown	4			letter	Charles Green	frontiernet	PTN	CurlCharlesGreen	doc	14-Sep-09	
5523		paper;curl;moisture;copy_machine	01-Nov-01	4	Green, Charles and Atkins, James	Solving Curl Problems: The Basics	Solutions, pp 40-43, November, 2001	4			magazine	TAPPI	self	SolvingCurlBasics	MiscScan	doc and pdf	24-Dec-09	
750		real time;control	06-Oct-85		Green, Robert M.	The Application of Local Area Networks to Real Time Machine Control	TAPPI Finishing and Converting Conf. Proc., 1985				conference	TAPPI						
751		blade;web;coat;fem;model;measure	01-Feb-98	8	Green, S.I and Zhao, R.H. and Kerekes, R.J.	Pressure Distribution between Forming Fabrics in Blade Gap Formers: Blades of Finite Width and Fabrics of Finite Stiffness	J. of Pulp and Paper Science, vol 24, no 2, pp 60-68, February 1998				magazine	J Pulp and Paper Science						
752		tension;control	01-Jul-95		Greenfell, K.P.	Tension Control on Paper-Making and Converting Machinery	IEEE Transactions, July 1964											
2979	o	wind;unwind;rebuild	21-Oct-02		Greer, Richard	Reasons to Upgrade Your Unwinding and Winding Equipment	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL	Faustel					
2714		shive;calender;cut;runnability	01-May-00	4	Gregersen, O.W. and Hansen, A and Tufa, L.D. and Helle, T.	The influence of fiber shives on calender cuts in Newsprint	J of Pulp and Paper Science, vol 26, no 5, May 2000				magazine	J Pulp and Paper Science						
10023		plastic;film;extrusion;coating;book	04-Dec-07	200	Gregory, Bert H.	Extrusion Coating A Process Manual	Trafford Publishing, ISBN: 978-1-42516-273-3	10			book	Trafford Publishing	self					
10024		plastic;film;extrusion;book	15-Dec-09	200	Gregory, Bert H.	Polyethylene Film Extrusion	Trafford Publishing, ISBN: 978-1-42691-810-0	10			book	Trafford Publishing	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
753		wind;duplex	10-Jan-80	4	Greiner, Thomas S.	Winders with Individually Programmed Stations and Slitters	Tappi J., vol 63, no 10, pp 39-42, Nov 1980				magazine	TAPPI	Jagenberg					
754		wind;auto	02-Mar-81		Greiner, Thomas S.	Automation of Roll Set Changes on Fast Paper Machine Winders	TAPPI Annual Mtg. (Chicago) Proc., pp 357-371					TAPPI	Jagenberg					
755		wind;auto	01-Oct-81	4	Greiner, Thomas S.	The Automation of Roll Set Changes on Fast Winders	Tappi J., vol 64, no 10, pp 59-62, Oct 1981				magazine	TAPPI	Jagenberg					
756		wind;auto;density	01-Apr-82	5	Greiner, Thomas S.	Winders and Winding	Pulp & Paper Canada, vol 83, no 4, pp 61-65, 1982				magazine	Pulp and Paper Canada	Jagenberg					
757		wind;duplex;nip	16-Oct-83	4	Greiner, Thomas S.	The Vari-Top Winder for Heavy Rolls	TAPPI Finishing and Converting Conf. Proc., 1983				conference	TAPPI	Jagenberg					
758		wind;roll_structure;nip;control;set_change	01-May-84	4	Greiner, Thomas S.	Winder for Heavy Rolls	Tappi J., vol 67, no 5, pp 76-78, May 1984				magazine	TAPPI	Jagenberg					
759		wind;auto;density	05-Apr-88		Greiner, Thomas S.	Winders and Winding	CPPA Tech. Sect. Newsprint Conf. (Totonto), pp113-117, Jun9-12,				conference	CPPA	Jagenberg					
760		wind;reel;slit	29-Apr-88		Greiner, Thomas S.	Winding Slitting and Splicing	Web Process and Converting Technol and Equip, Van Nostrand						Jagenberg					
761		tension;control;ridged edge;air;hardness	20-Jun-63	7	Grenfell, K.P.	Tension Control on Papermaking and Converting Machinery	IEEE Ninth Annual Conference on Electrical Engineering in the P											
9820		coat	10-Jun-12		Griffisht, Jon-Paul	The Practical Uses of Chemical Adhesion in Interlayer Bonding	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Oxford Advanced Surfaces					
762		tension;steel	01-Oct-76	8	Grimble, J.J.	Tension Controls in Strip Processing Lines	Metals Technology, pp 446-453, October 1976											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
763		paper;spot;defect;troubleshoot	01-Apr-94	4	Grimsley, S. Allen and Chen, Gordon C.	Troubleshooting Paper Spots and Deposits	Tappi J., vol 77, no 4, pp 262-265, April 1994	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4794&DID=520544	The elimination of paper holes, spots, and deposits is similar to any problem-solving activity in terms of overall methodology. The most troublesome part is the initial verification and identification of the cause of the problem	magazine	TAPPI						
764		gearbox;vibration;frequency;fft	01-Aug-95	10	Grinn, Jeffrey G.	Vibration Frequencies Generated by Paper Machine Differential Gearbox Drives	Tappi J., vol 78, no 8, pp 93-102, August 1995	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4746&DID=518361	differential gearboxes found on line shaft driven paper machines are analyzed, and background is given on computing gearmesh frequencies and shaft speeds found inside the gearboxes	magazine	TAPPI						
765		production;slitter;splice;spreader	01-Oct-76		Grody, D.R.	Efficiency at the Finishing End	Paper Technology & Industry, vol 17, no 6, pp 237-242 244-245				magazine	Paper Technology						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
766	o	computer;plc;control;benchboard	18-Oct-92	6	Gronewold, Jan	Computer Aided Winding Gives Competitive Edge	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 307-312, Oct 18-21 1992	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5630&DID=517249	A supervisory computer simplifies intricate drive and winder functions, so operators can easily communicate with machinery. An operator interface terminal allows faster, safer and more accurate setting	conference	TAPPI	Voith Sulzer					
767	o	winder;design	15-Oct-95	14	Gronewold, Jan	Winding Tools and Variables: A Look Beyond Paper and TNT	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 99-112, Oct 15-18, 1995	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5460&DID=521828	center to center-surface winding, and from duplex to differential, gap and contact winding, this paper relates to drives, horsepower, torque, load shares, tapers, nip, tension and tension isolation	conference	TAPPI	Voith Sulzer					
768	o	book;winder;design;application	01-Oct-98	186	Gronewold, Jan	Winders, A Practical Guide for Paper Mills and Converters	TAPPI PRESS, 1998	10	http://www.tappi.org/s_tappi/docbookstore.asp?CID=9042&DID=520883	book serves as a complete winder training, applications, and product buying guide	Book	TAPPI	Voith Sulzer	WinderGuideGronewold	BookScan	doc and pdf	20-Jan-11	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
769	o	winder;design;application	04-Oct-98	14	Gronewold, Jan	Winders, A Practical Guide for Paper Mills and Converters	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 129-142, October 4-8, 1998	3	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5255&DID=509146	This is an update of a 3-year project that was initiated to list as many different winder types and functions as possible. The purpose of such a book is to	conference	TAPPI	Voith Sulzer					
5744		wind;application;design;nip;tension	01-Jan-99	23	Gronewold, Jan	Winding	TAPPI? Chapter 14 of Extrusion Coating Manual	5			book chapter	TAPPI	Voith Sulzer	WindingGronewold	WindGeneralScan	doc and pdf	25-Oct-09	
2742	o	book;winder;anthology;history	01-Oct-00	370	Gronewold, Jan	Winding: Anthology of Published Papers	TAPPI PRESS, 2000	10	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=9042&DID=520801	This anthology reviews over 30 years of winding applications. It contains a total of 47 papers covering practically every aspect of winding	Book	TAPPI	Voith Sulzer					
770	o	lateral;edge;sensor	19-May-91	7	Gronquist, Donald	Sensors and Signal Processing an Optical Edge Sensor for Transparent Film Applications	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 304-310, May19-22 1991					WHRC						
771	o	calender	02-Oct-94	6	Groshek, Jeffrey M.	A Finishing Alternative for Offset LWC	TAPPI Finishing and Converting Conf. Proc., Chicago, pp 73-78, October2-5, 1994	3	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5515&DID=522857	Pilot SNC is compared to supercalendering on commercially coated LWC. In terms of paper properties and offset print evaluation	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
772		dryer;thermal;maintenance	01-Dec-96	2	Grunder, Thomas K.	How Important is Dryer Warmup?	Tappi J., vol 79, no 12, pp 76-77, December 1996	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4745&DID=517821	However, the long-term risks far outweigh the short-term financial gains. Rapid warmup of a dryer can lead to broken bearings and even catastrophic failure.	magazine	TAPPI						
2574	o	wind;experiment;jline;slip;camera;video	06-Jun-99	16	Gueldenberg, B and Welp, E.G.	Quantitative Analysis of Nip-Induced Tension by Use of Digital Image Processing	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC						
5462		coating;gravure	27-Mar-96	12	Guenther, Donald	Gravure Coating Methods	CEMA Shortcourse The Coating and Lamination Process Substrates, Coatings and Equipment, March 27, 1996	3			shortcourse	CEMA	Faustel	GravureCoatingGuenther	CtgCema96	doc and pdf	01-Oct-09	
3248	o	film;material_property	24-Oct-04		Gum, Fred	Things to Know about Converting Extensible Films	AIMCAL Fall Tech Conf, Charleston, October 24-27, 2004					AIMCAL	AET Films					
3208	o	material_property;modulus;design	25-Oct-04	1	Gum, Fred	Things to Know About Converting Extensible Films	AIMCAL Fall Tech Conf, Charleston SC, Oct 24-27, 2004					AIMCAL	AET Films					
773		paper;property;moisture;humidity;creep	18-Apr-90		Gunderson, Dennis E.	Tensile Creep of Paperboard - Effect of Humidity Change Rates	Materials Research Society Conf. Proc., San Francisco, April 18-20 1990						Forest Products Lab					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5543		moisure;humidity;measurement;tension;stress	01-Mar-91	7	Gunderson, Dennis E.	Method for Measuring Mechanosorptive Properties	J Pulp and Paper Science, vol 17, no 2, pp J53j59, Mar 1991	3			magazine	J Pulp and Paper Science	Forest Products Lab	MechanosorptiveProperties	MoistureScan	doc and pdf	17-Sep-09	
775		paper;property;moisture;humidity;creep	01-Jan-88		Gunderson, Dennis E.. and Considine, J. and Scott, C.	The Compressive Load Strain Curve of Paperboard: Rate of Load and Humidity Effects	J. Pulp and Paper Science, J37, 1988.				magazine		Forest Products Lab					
2715		paper;property;cof;wind;crepe_wrinkle;wind	01-Jun-00	3	Gunderson, Dennis E.. and Considine, J. and Scott, C.	Concerning Coefficient of Friction	Tappi J, vol 83, no 6, pp 39-41, June 2000.	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4771&DID=517613	Coefficient of friction that is too high, too low, or simply inconsistent can be the source of serious (sometimes quite mysterious) problems of many sorts.	magazine	TAPPI	Forest Products Lab					
5572		roller;calender;nonwoven;thermoplastic;bonding;emboss	01-Jun-94	10	Gunter, D. Steve	Thermal Bonding Utlizing Calenders	Tappi J., vol 77, no 6, pp 216-224, June 1994	5			magazine	TAPPI	BF Perkins	ThermalBondingCalenders	RollerScan	doc and pdf	18-Dec-09	
777	o	nonwoven;calender;design	11-Mar-96	5	Gunter, D. Steve	Calendar Selection for Nonwovens	TAPPI Nonwovens Conf. Proc., pp 105-109, Charlotte NC, March 11-13, 1996	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5417&DID=521433	Calender from the menus of 1) the type of Calender 2) the type of rolls 3) special features. While some Calender designs offer more versatility than others	conference	TAPPI	BF Perkins					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
778		nonwoven;calender;design	01-Aug-98	8	Gunter, D. Steve	Calender Selection for Nonwovens	Tappi J., vol 81, no 1, pp 208-215, January 1998	3	http://www.tappi.org/s_tappi/sec publications.asp?CID=4760&DID=517851	select the required calender from the menus of the type of calender, the type of rolls, and any special features. While some calender designs offer more versatility than others, no single design satisfies all nonwoven producers'	magazine	TAPPI	BF Perkins					
9809		vacuum_dep	10-Jun-12		Gunther, Steffen	High Rate, Low Pressure PECVD for Barrier and Optical Coatings	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Fraunhoffer Institute					
779		nonwoven;absorency;expansion	01-Dec-94	8	Gupta, B.S. and Hong, C.J.	Changes in Web Dimensions during Fluid uptake and the impact on Absorbency	Tappi J., vol 77, no 12, pp 181-188, December 1994	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4802&DID=520401	hydrophobic fibers prepared using air laying techniques with a gravimetric absorbency testing system	magazine	TAPPI						
780		material;property;friction	01-Sep-91		Gupta, B.S. et al	Friction in Fibrous Materials Part I	Textile Research J., Sep 1991				magazine	Textile Research J						
781		property;paper;friction	01-Jan-92		Gurnagul, N. and Ouchi, M.D. and Dunlop-Jones, N. and Sparkes, D.G. and Wearing, J.T.	Factors affecting the coefficient of friction of paper	J. of Applied Polymer Sci, vol 46, no 5, pp 805, 1992.				magazine							

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5918		roller;nip_impression;electronic;press	01-Nov-09	4	Gustafson, Eric J.	So Smart	PaperAge, pp 28-30, November 2009	3	http://www.paperage.com/issues/nov_dec2009/11_2009so_smart_roll_tech.pdf	Controlling and maintaining a uniform nip requires feedback from the nip. Until recently, this feedback could only be obtained when the press was not actually operating.	magazine	Paper Age	Stowe Woodard					
9927	o	roller;nip;sensor	01-Mar-13		Gustafson, Eric J.	New Developments in Roll Cover Embedded Systems	Paper Age, March/April, pp 26-28, 2013	4		embedded roller cover nip electronic sensor	magazine	Paper Age	Stowe Woodward	RollerSensorEmbedGustafson	RollerScan	pdf	13-Apr-13	
782		corrugate;board;strength;standard	01-Jan-93	6	Gutmann, Hans and Nelson, William J. and Yerke, John F.	Rule 41 Implications for Linerboard Producers	Tappi J., vol 76, no 1, pp 158-163, Jan 1993	3	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5621&DID=524339	alternatives for designing and constructing containers where equivalent stacking strength is provided while box weight is reduced	magazine	TAPPI						
3127		coating;drying;defect	01-Jan-93	6	Gutoff, Edgar B.	Avoid Coating and Drying Defects	Chemical Engineering Progress, vol 89, no1, pp 49-55, January 1993						Self					
3125		coating;drying	01-Jan-94	8	Gutoff, Edgar B.	Modeling the Drying of Solvent Coatings on Continuous Webs	J Imaging Science Tech., 38, 184-192, 1994				magazine		Self					
3123		coating;drying	01-Jan-96	20	Gutoff, Edgar B.	Modeling Solvent Drying of Coated Webs Including the Initial Transient	Drying Technology, 14, 1673-1693, 1996						Self					
3122		coating;drying	01-Jan-99	15	Gutoff, Edgar B.	Two-Sided Drying of Coatings on Porous Webs	Drying Technology, 17, 691-705, 2001						Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2708		coating;bubble;defect	01-May-00	1	Gutoff, Edgar B.	How do I prevent bubbles in my coatings	Converting Magazine, vol 18, no 5, pp 50, May 2000				magazine	Converting Magazine	Self					
3121		coating;drying	01-Jan-01	15	Gutoff, Edgar B.	The Drying of Coatings on Thick Webs	Drying Technology, 19, 2261-2276, 2001						Self					
2908	o	dryer;oven;dry_point;solvent;evaporation	01-Nov-01	1	Gutoff, Edgar B.	What is "dry point" and why is it important?	Converting Magazine, vol 19, no 11, pp 32, November 2001				magazine	Converting Magazine	Self					
3128		coating;drying	01-Jun-03	3	Gutoff, Edgar B.	Model Behavior	Paper, Film & Foil Converter, vol 77, no 6, pp 54-55, June 2003				magazine	Paper Film Foil Converter	Self					
3266		coating;bubbles	01-Dec-04	3	Gutoff, Edgar B.	Coating Defects: Eliminate Pesky Bubbles	Paper, Film & Foil Converter, vol 78, no 12, pp 46-48, December 2004	4	http://pffc-online.com/mag/paper_eliminate_pesky_bubbles/	How do bubbles form, and how can we eliminate them? Avoid introducing air into the coating fluid.	magazine	Paper Film Foil Converter						
783	o	coating;drying;defects;web_handling;book	01-Jan-95	287	Gutoff, Edgar B. and Cohen, Edward D.	Coating and Drying Defect Problems - Troubleshooting Operating Problems	John Wiley & Sons, Inc, 1995	10			Book		Self					
3124		coating;drying	01-Jan-96	14	Gutoff, Edgar B. and Cohen, Edward D.	R&D Needs in the Drying of Coatings	Drying Technology, 14, 1315-1328, 1996						Self					
784		wind;model	01-Jan-59		Gutterman, R.P.	Theoretical and Practical Studies of Magnetic Tape Winding Tension	Contract no DA-18-119-SC-42; General Kinetics, Arlington,VA (1											
785		paper;property	01-Mar-85		Habeger, Charles C.	An Addition to the Seth-Page Nonlinear Network Model for Paper	J. of Pulp and Paper Science, p J51-J55, Mar1985				magazine	J Pulp & Paper Science						
5664		wrinkle;tension;cd	01-Sep-93	6	Habeger, Charles C.	Tension Wrinkling and the Fluting of Light-Weight Coated Papers in Web-Offset Printing	J. of Pulp & Paper Science, vol 19, no 5, September 1993, pp J214-J219	4			magazine	J Pulp & Paper Science	James River	TensionWrinklingOffsetPrinting	SpreadWrinkleScan	doc and pdf	24-Dec-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
786	c	tension;MD;wrinkling;fluting;moisture;oven	01-Oct-93	6	Habeger, Charles C.	Tension Wrinkling and the Fluting of Light-Weight Coated Papers in Web-Offset Printing	J. of Pulp & Paper Science, vol 19, no 5, September 1993, pp J214-J219				magazine	J Pulp & Paper Science						
5501		measure;ultrasonic;modulus;strength	01-Jun-86	6	Habeger, Charles C. and Baum, Gary A.	On-Line Measurement of Paper Mechanical Properties	Tappi J., vol 69, no 6, pp 106-111, Jun 1986	3			magazine	TAPPI	IPC	OnlineMeasureProperty	MeasurementScan	doc and pdf	29-Dec-09	
788		analytical;anisotropy;attenuation;instrument;microwaves;orient	01-Feb-87	5	Habeger, Charles C. and Baum, Gary A.	The Use of Microwave Attenuation as a Measure of Fiber Orientation	Tappi J., vol 70, no 2, pp 109-113, Feb 1987				magazine	TAPPI						
789		plate wave;ultrasonic	01-Mar-79		Habeger, Charles C. and Mann, R.W. and Baum, G.A.	Ultrasonic Plate Waves in Paper	Ultrasonics, March 1979, pp 57-62											
3383		dual_bow_spreader	01-Apr-06	4	Hadlack, Alan H.	Propert Setup and Practices Ensure Stable Dual Roll Spreader Operation	Pulp & Paper, vol 90, no 4, pp 32-39, April 2006				magazine	Pulp and Paper						
5524		static;safety;measurement;static_bar		3	Hadley, Derek A.	Static - Friend or Foe	provenance unkown	3			magazine		Static Control	StaticFriendFoe	MiscScan	doc and pdf	24-Dec-09	
5745		wind;two_drum;roll_structure	01-Feb-79	4	Hadlock, Alan	The Principles of Winding	PIMA, pp 13-16, Feb 1979	2			magazine	PIMA	Beloit	WindingPrinciplesHadlock	WindGeneralScan	doc and pdf	25-Oct-09	
5819		wind;two-drum;tightness;torque;mode	07-Mar-02	14	Hadlock, Alan	Two-Drum Winder Drum Torque Control		2			report	author	Self	TwoDrumTorque1	WindModelScan	doc and pdf	25-Oct-09	
5820		wind;two-drum;tightness;torque;mode	15-Jan-03	11	Hadlock, Alan	Two-Drum Winder Torque Control		2			report	author	Self	TwoDrumTorque2	WindModelScan	doc and pdf	25-Oct-09	
791		roll structure;torque;nip;tension	01-Feb-79	4	Hadlock, Alan H.	The Principles of Winding	PIMA, vol 61, no 2, pp 13-16, February 1979				magazine	PIMA	Beloit					
792		unwind;brake	17-Oct-82	4	Hadlock, Alan H.	Unwind Brake Systems	TAPPI Finishing and Converting Conf. Proc., 1982				conference	TAPPI	Beloit					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5898		winder;two_drum;torque	01-Jan-04	4	Hadlock, Alan H.	Two-Drum Winder Torque Control	TAPPI, Paper Summit, Spring Technical & International Environmental Conf, 2004	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5048&DID=513341	adds to or subtracts from the nip force created by the roll weight and rider roll loading depending on how the paper wraps the drum rolls. Secondly, in a rear drum wrap arrangement, the front drum torque force resists the nip rejection	conference	TAPPI	Beloit					
793		trim system;math;analytical;trim;program;heuristic;transport;co	01-Jan-80		Haessler, Robert W.	Multimachine Roll Trim. Problems and Solutions	Tappi J., vol 63, no 1, pp 71-74, Jan 1980				magazine	TAPPI	Univ of Michigan					
5746		wind;trim;roll_width;pattern;waste;yield	01-Jul-91	3	Haessler, Robert W. and Sweeney, Paul E	Evaluating the impact of small changes in ordered widths on trim yields	Tappi J, vol 74, no 7, 195-197, Jul 1995	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4822&DID=519582	changes in ordered widths can have a significant impact on trim loss or process yield for any material that is produced in wide rolls and slit to satisfy variety of customer order sizes	magazine	TAPPI	Univ of Michigan	TrimWidthYieldCalc	WindGeneralScan	doc and pdf	26-Oct-09	
795		tension;measurement;experiment	01-Mar-82		Haggstrom, Rolf	Experiments on Tension Measurment in Manufacturing Processes	Experimental Mechanics, Mar 1982				magazine							
796		roller;cover;coat	02-Oct-95		Hahn, Mark and Buono, Ron	Roll Coverings	AIMCAL 1995 Fall Tech. Conf. Proc., Atlanta, Oct 2-4, 1995					AIMCAL						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
797	o	roller;heat;ceramic	01-Aug-95	2	Hahn, Mark and Hyllberg, Bruce	Ceramic Heater Rollers and Exciting New Alternative	Paper, Film & Foil Convert, vol 69, no 8, pp 60-61, August 1995				magazine							
798		analytical;math;roll;stress;nonlinear	01-Oct-86	6	Hakiel, Zig	Nonlinear Model for Wound Roll Stresses	TAPPI Finishing and Converting Conf. Proc., 1986				conference	TAPPI	Kodak					
5821		wind;stress;model;centerwind	01-May-87	5	Hakiel, Zig	Nonlinear Model for Wound Roll Stresses	Tappi J., vol 70, no 5, pp 113-117, May 1987	4			magazine	TAPPI	Kodak	NonlinearModelWoundStress	WindModelScan	doc and pdf	28-Nov-09	
5900		wind;stress;model;centerwind	01-Oct-90	5	Hakiel, Zig	Roll-structure calculations at constant wound-in tension	TAPPI Finishing and Converting Conference Proceedings, 1990	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5730&DID=515324	calculation is able to theoretically predict the interlayer pressure at the core which is of interest in the case of gearing effects. The calculation also predicts the relationship between the roll-density monitor and wound-in tension	magazine	TAPPI	Kodak					
800	o	wind;model;caliper;profile	19-May-91	20	Hakiel, Zig	On the Effect of Width Direction Thickness Variations in Wound Rolls	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 79-98, May19-22 1991					WHRC	Kodak					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5899		wind;stress;model;centerwind	01-Jul-91	5	Hakiel, Zig	Roll-structure calculations at constant wound-in tension	TAPPI JOURNAL, July 1991, Vol. 74(7)	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4822&DID=519578	calculation is able to theoretically predict the interlayer pressure at the core which is of interest in the case of gearing effects. The calculation also predicts the relationship between the roll-density monitor and wound-in tension	magazine	TAPPI	Kodak					
801	o	wind;model;economic;defect	18-Jun-95	16	Hakiel, Zig	From Predictive Models to Profitability in the Web Handling Industry	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC	Kodak					
802		thread	01-Apr-90		Halila, J.	The Valmet Tail Shooter and Tail Blower Improve Safety and Boost Productivity	Tappi J., vol 73, no 4, Apr 1990	4	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=5756&DID=515125	yielded a device to transfer the tail through a separate press or from press to dryer section. Transfer to the ropes is under development	magazine	TAPPI						
803		defect;wrinkle;star;telescope;roll structure;winder;roll defect	01-Dec-75	4	Hall, Donald D.	How Proper Handling of a Winder Can Prevent Common Roll Defects	Pulp & Paper, vol 49, no 12, pp 72-75, Dec 1975				magazine	Pulp and Paper						
3017		sheeter;guillotine;cutter	01-Mar-76	4	Hall, Donald D.	Guillotine cutters are quickly disappearing in fine paper mils	Pulp & Paper, pp 142-145,				magazine	Pulp and Paper						
804		defect;roll structure	01-Mar-77	4	Hall, Donald D.	How to Wind Better at the Paper Machine	Pulp & Paper Canada, vol 78, no 3, pp 45-48				magazine	Pulp and Paper Canada						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
805		defect;roll structure;property;finishing;cost;broke;roll defect	01-Apr-79	3	Hall, Donald D.	Finishing Costs can be Reduced by Careful Papermaking Practices	Pulp & Paper, vol 53, no 4, pp 182-184, Apr 1979				magazine	Pulp and Paper						
806		broke;disposal	01-Dec-79	3	Hall, Donald D.	Streamlining the Broke Handling Disposal Process in Paper Mills	Pulp & Paper, vol 53,no 12, pp 123-125, Dec 1979				magazine	Pulp and Paper						
807		roll;structure;defect;corrugation	01-Oct-80	4	Hall, Donald D.	Techniques for Reducing Defects in Rolls at Paper Machine Winder	Pulp & Paper, vol 54, no 10, pp 102-105, Oct 1980				magazine	Pulp and Paper						
809	o	trim	24-Oct-93	6	Hall, James W.	Sheeter Trim and Reject - Pneumatic vs Mechanical Handling	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 365-370, Oct 24-27 1993	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5578&DID=523507	cumbersome means of manually handling sheet and ream reject by Broke Handlers. Several sheet finishing operations have eliminated the Broke Handlers and have gone to conveying the broke pneumatically	conference	TAPPI						
808	o	trim_handling; conveying	04-Oct-98	12	Hall, James W.	Practical Solutions for Trim and Waste Handling Systems	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 165-177, October 4-8, 1998	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5255&DID=509150	evaluation of either his existing or future Waste Handling System. We will be reviewing the basic components of a typical pneumatic waste conveying system	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5799		wind;measure;schmidt_hammer;corrugation	01-Oct-89	9	Hall, Kenneth M and McLemore, Charles E	Mill Experience in Improving Mechanical Reel Condition	TAPPI Finishing and Converting Conf. Proc., Kansas City MO, pp 87-96, Oct 1-5 1989	4			conference	TAPPI	Mead Paper	MechReelCondition	WindMeasureScan	doc and pdf	22-Sep-09	
811		trim;waste	01-Apr-91		Hall, M.	Trimming Your Waste	Paper Focus, Apr 1991											
812		warehouse;roll_handling	01-Oct-93	3	Hall, Peter B.	New Pulp and Paper Warehousing and Handling Techniques	Tappi J., vol 76, no 10, pp 47-49, Oct 1993				magazine	TAPPI						
5606		runnability;paper;web_break;measurement;statistics;tension;winder	01-Jan-76	10	Hallberg, Bengt	Statistical Models for Break Frequencies of Newsprint	Univ. of Umea, Institute of Mathematics and Statistics, Thesis, 1976	4			magazine	Univ of Iumea	Univ of Iumea	StatisticalModelBreakNews	Runnability Scan	doc and pdf	30-Dec-09	
5607		runnability;paper;web_break;measurement;statistics;tension;winder	01-May-88	1	Haller, H.S. and MacDonald, J.R.	Comment on the Analysis of Web Break Statistics	Tappi J., vol 71, no 5, pp 145, May 1988	3			magazine	TAPPI	Quebec and Ontario Paper	Comment WebBreak Stat	Runnability Scan	doc and pdf	30-Dec-09	
815		material;property;friction;newsprint	01-Jan-89		Haller, T.M.	The importance of coefficient of friction to the newsprint industries	Preprints CPPA/TS Newsprint Conf, 141, 1989.											
2599		wind;model	01-Jan-98		Hamad, W.	Winding of anisotropic materials	pira Technoogy Series, 1998.											
3395	o	winder;lab;roll_structure;bagginess	07-May-06	1	Hamel, Jean	Web and roll performance characterization at paprican	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	PAPRICAN					
2596	o	print;press;runnability;slip;j-line	06-Jun-99	14	Hamel, Jean and Menar, A. and McDonald, David	The Factors that control run-ahead on printing presses	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC	PAPRICAN					
816		calender;nip;measure	01-Jan-91		Hamel, Jean et al	Measurements of Nip Load Distribution in Calenders Using Uncalendered Paper	Canadian Pulp and Paper Assoc, 77th Annual Mtg.				magazine	Canadian Pulp & Paper Ind	PAPRICAN					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6066		tacky;roller;web_cleaning	06-Apr-11		Hamilton, Sheila	Reducing Waste in Engineered Thin Film Material Manufacture	ICE USA 2011 Tech Program	5			conference	ICE AIMCAL	Teknek					
9832		clean	10-Jun-12		Hamilton, Sheila	Contact Cleaning for Barrier Coatings	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Teknek Ltd					
10020		roller;web-clean;contact;measure	01-Jan-14	4	Hamilton, Sheila	Substrate cleaning in a high-vacuum environment	Converting Quarterly, qtr 1, 2014	5			magazine	AIMCAL	Teknek					
817		web;clean;ultrasonic;air	01-Jul-96	2	Hammerle, Hugo	A Combination Approach to Cleaning Your Web	Converting Magazine, pp 72-73, August 1996				magazine	Converting Magazine						
818	o		01-Jun-97		Handa, M.	Advanced Surface Design of Polyester Films and its Application to Magnetic Recording Media	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC						
819		tension;control;metal	01-Mar-79		Handerson, G.M.	Automatic Tension Control for Winding Superconducting Coils	Southeast conf. Reg 3. Conf roanoke, VA April 1-4, 1979; Publ.											
3392	o	dancer	07-May-06	1	Haney, Scott	Unraveling the mystery surrrounding dancer applications	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Magpower					
820		wind;stress;model	01-Jan-85	14	Hanish, K.	Stress and Strain in Coils of Wound Film	J. de Mec. Th. et Appl., vol 4, no. 1, pp 59-72, 1985				magazine							
821		dry;noncontact	01-Nov-90		Hanrahan, K.	Contactless Drying and Web Handling Systems	Modern Technologies in Pressing and Drying Conf., Nov 1990											
822		electric;drive;control	01-Nov-73		Hansch, R.	Electrical Equipment for Winder Drives	Papier Carton Cellulose, vol 22, no 11, pp 60-64											

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5502		measure;CD;tension;profile;measure	01-Dec-86	4	Hansen, Age	A Portable Instrument for Web-Tension Control and Cross Profile	Tappi J., vol 69, no 12, pp 48-51, Dec 1986	2			magazine	TAPPI	Norwegian Pulp and Paper Research	PortableWebTension Measure	MeasurementScan	doc and pdf	29-Dec-09	
5941	o	drive;gearbox	18-May-10	1	Hansen, David and Feketa, Steve	The Age of Direct Drive	Applied Web Handling Conf, AIMCAL AWEB, Rochester, May 17-20	3	http://www.aimcal.org/association/aweb10/abstracts.asp?RECORD_KEY=filename&filename=hansen	. Simplified mechanical designs, enabled by direct drive motors with fewer components that run more efficiently	conference	AIMCAL	Rockwell	AWEB/AWEB10	AWEB2010	pdf	04-Jun-10	
3557	o	wind;coreshaft;design	06-May-08	1	Hansen, Scott	Performance Comparisons in Air Shaft Materials - What Material Works Best for Your Application	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	Goldenrod					
9920		printing;roller;nip;book	01-Jan-12	170	Hansson, Rolf	Offset Printing – Controlled Process	Optirep Books	10	http://optirep.net/books/	170 pages of in-depth explanations of printing technology, platemaking, paper manufacturing and color measurement and reproduction. 230 detailed illustrations makes this an ideal training guide.	book	Optirep	Dalarna Univ, Sweden					
3730	o	guide;edge_sensor	07-Jun-09	20	Haque, Jami and Winter, Darcy and Ploetz, William	Edge Sensor	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC	Fife					

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2610	o	guide;edge;sensor	06-Jun-99	12	Haque, M. and Winter, D. and Hueppelsheuser, J. and Newton, J. and Storie, G.	Linear Edge Sensor	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC						
2838	o	slit;edge;quality;measure	11-Jun-01	10	Haque, M.M. and Yates, J. and Schmidt, S. and Winter, D. and Hueppelsheuser, D and Storie, G.	Linear Image Detector-Based Edge Scan Sensor	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC						
824		creep;strain;board;measure	01-Jan-94	6	Haraldsson, T. and Fellers, C. and Kolseth, P.	A Method for Measuring the Creep and Stress-Strain Properties of Paperboard in Compression	J of Pulp and Paper Science, vol 20, no 1, pp J14-J19, January 1994				magazine	J Pulp and Paper Science						
825	o	winding	01-Jun-97		Harand, D. and Juhe, H.	Experimental Investigations of Winding and Unwinding Operations	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC						
5823		wind;stress;model;centerwind	01-Jan-67	8	Hari, Yogeshwar	Tension Pattern for Film Winding	Univ. of N. Carolina at Charlotte, Dept. of Mech. Engr., Unpublished Report	1			report	PolymerEngr	U of N Carolina	TensionPatternsFilmWind	WindModel Scan	doc and pdf	28-Nov-09	
5822		wind;nip_load;calculation	02-Apr-86	7	Hari, Yogeshwar	Analysis of Lay-On Roll for a Film Winder	(Unpublished paper presented at Mechanical Engineering & Engine	1			report	author	self	LayonRollerAnalyze	WindModel Scan	doc and pdf	25-Oct-09	publication date uncertain
5824		wind;stress;model;centerwind	01-Jan-67	5	Harland, W.G.	Stress Distribution and Winding Faults in Reels of Plastic Film	Polymer Engineering and Science, pp 58-62, Jan 1967	1			magazine	PolymerEngr	U of Manchester	StressDistributionWindingFilm	WindModel Scan	doc and pdf	28-Nov-09	

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5825		wind;stress;model;centerwind	01-Aug-74	4	Harland, W.G.	Theoretical Aspects of Winding Reels	Plastic & Polymers, pp 162-165, Aug 1974	1			magazine	PlasticsPolymers	U of Manchester	TheoreticalAspectsWinding	WindModelScan	doc and pdf	28-Nov-09	
830		roll;handling;inventory	01-Jul-90		Harper, J.E.	Integrated Roll Quality / Roll Tracking	Tappi J., vol 73, no 7, Jul 1990	2	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4869&DID=519178	The objective of a CIM system can be viewed as helping the mill to: * Get the right roll (pallet or bale) * To the right customer * At the right time * At the right quality * At the right cost.	magazine	TAPPI						
831		capacitor;wind	01-Jan-89	5	Harris, J. O. and Foster, J. C. and Delancy, R. W.	Effect of Winding Tension/Space Factor and Edge Margin on Performance of a Perflourocarbon Liquid/Plastic Film Capacitor	Proc. of the 9th Capacitor and Resistor Technology Symposium, The Components Technology Institute, pp 79-84, 1989											
832		dry;cure	01-Aug-91		Hart, J.K.	An Update on Drying and Curing Systems for the Converter	Paper Technology, Aug 1991				magazine	Paper Technology						
5826		wind;core;model;design	01-Aug-70	4	Harvey, D. Michael	Operating Variables in Spiral Winding: Theoretical Interrelation	Tappi J., vol 53, no 8, pp 1521-1524, Aug 1970	2			magazine	TAPPI	Domtar Research	SpiralWindingTheory	WindModelScan	doc and pdf	28-Nov-09	
834		lwc;slitter;roll structure	13-Oct-80		Hasheider, G.W.	Finishing of Coated Papers -- Trends	EUCEPA Conf (19th) Paper in our World (Munich), vol 2, no 31, pp 18				conference							

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2789		moisture;diffusion;drying	01-Feb-97		Hashemi, S.J., and Gomes, V.V> and Crotogin, R.H. and Douglas, W.J.M	In-Plane Diffusivity of Moisture in Paper	Drying Technology, 15, no 2, pp 265-294, 1997											
14111	o	wind;model;thermal;temperture	07-Jun-15		Hashimoto, H	Optimization of Winding Conditions for Preventing Roll Defects Caused by Thermal-Viscoelastic Property and Experimental Verification	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	self					
14120	o	traction;film;roller	07-Jun-15		Hashimoto, H and Sunami, Y	Friction Characteristics Between Thin Plastic Flm and Steel Roller	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	university					
14113	o	wind	07-Jun-15		Hashimoto, H and Tominaga, Y and Morikawa, R	Development of Intelligent Plastic Film Winder "Windstar"	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	university					
835	o	air_entrainment	01-Jun-97		Hashimoto, H.	Estimation of Air Film Thickness between Moving Webs and Guide Rollers	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC	Tokai Univ					
836		air_bar;turn_bar;film_height;model	01-Jul-97	6	Hashimoto, H.	Effects of Foil Bending ... hydrostatic porous foil bearings for web handling processes	J. of Tribology, vol 119, pp 422-427, July 1997				magazine		Tokai Univ					

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2805		air;entrain	01-May-99	2	Hashimoto, H.	Tribological Approach to Web Handling Problems	Proc. Of Japan Soc of Mech. Engr, vol 1999, no 5, 1999.						Tokai Univ					
2614	o	porous;groove;roller;model	06-Jun-99	20	Hashimoto, H.	Improvement of Web Spacing Characteristics by Two Types of Guide Rollers	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC	Tokai Univ					
3287	o	wrinkle;model	05-Jun-05	10	Hashimoto, H.	Prediction Model fof Paper-Web Wrinkling and Some Numberical Calculation Examples With Experimental Verifications	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC	Tokai Univ					
3305	o	traction	05-Jun-05	10	Hashimoto, H.	Theoretical Modeling of Traction Characteristics Between and a Paper Web and a Steel Roller Based on the Contact Mechanics	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC	Tokai Univ					
3502	o	roller;grooving;air_entrain	10-Jun-07	8	Hashimoto, H.	Prediction Model of Traction between Circumferentially Rotating Grooverd Roller and Paper with with Experimental Verifications	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC	Tokai Univ					
3496	o	wind;model;defects	10-Jun-07	8	Hashimoto, H.	Optimization of In-Roll Stress Disrtibutions for Preventing Wound Roll Defects	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC	Tokai Univ					

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3733		wind;telescope;peel	01-Jan-07	12	Hashimoto, H. and Kiribe, S.	Optimization of Winding Tension for Preventing Wrinkle and Slippage in Wound Rolls of Films	Tribolist, Japanese Society of Tribologist, 52, 7, pp 533-545, 2007						Tokai Univ					
3704	o	wind;model;pressure;measurement	07-Jun-09	22	Hashimoto, Hiromu	Optimization fo Wind-up Tension of Webs Preventing Wrinkles and Slippage with Experimental Verification	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC	Tokai Univ					
3718	o	roller;groove;model	07-Jun-09	15	Hashimoto, Hiromu and Hikita, Shinji	Improvement of Slippage and Wrinkling of Transporting Webs Using Micro-Grooved Rollers	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC	Tokai Univ					
5544		moisture;humidity;tensile;load;creep	01-Jan-91	6	Haslach, Henry W and Pecht, Michael G and Wu, Xin	Variable Humidity and Load Interation in Tensile Creep of Paper	TAPPI Int'l Paper Physics Conf Proc, pp 219-224, 1991	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5691&DID=515916	The time dependent strain due to a constant in-plane load on a paper sheet is accelerated by varying the ambient relative humidity	conference	TAPPI	Univ of Maryland	HumidityCreep	MoistureScan	doc and pdf	17-Sep-09	
2644	o	calender;roller;cover	03-Oct-99	6	Haupert, F	Optimization of Composite Covers for Calender Rolls	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 35, October 3-7, 1999	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5187&DID=508495	This article discusses methods by which behavior of selected roll cover materials can be tested as close as possible to actual paper machine operating conditions	conference	TAPPI						

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838		wet;property;viscous;newsprint;stress;math;strain;relaxation;cr	01-Oct-77	3	Hauptmann, E.G. and Cutshall, K.A.	Dynamic Mechanical Properties of Wet Paper Webs	Tappi J., vol 60, no 10, pp 106-108, Oct 1977				magazine	TAPPI						
839		noise;grooving;slitter;framework;	01-Dec-77	3	Hautamaki, Risto	Reducing Paper Machine Noise Focus on High Speed Winders	Paper Trade J., vol 161, no 23, pp 28-30, Dec 1 1977				magazine	Paper Trade J						
840		noise;drum;slitter;trim	01-May-78		Hautamaki, Risto	Toward a Reduction in Paper Machine Noise: High Speed Winders a	Papier Carton Cellulose, vol 27, no 5, pp 45-47											
841		wind;layon_roll;air	01-Feb-98	1	Hawkins, William E.	What is going on under the Layon Roll - the Slitter Solution	Paper, Film & Foil Converter, vol 72, no 2, February 1998				magazine	Paper Film Foil Converter	Self					
842		roller;alignment	01-Mar-98	1	Hawkins, William E.	Web Stability and Alignment Requirements	Paper, Film & Foil Converter, vol 72, no 3, pp 28, March 1998				magazine	Paper Film Foil Converter	Self					
843		tension;temperature;poisson;spread	01-Apr-98	1	Hawkins, William E.	Web Stability - Part II: A look at tension limitations	Paper, Film & Foil Converter, vol 72, no 4, pp 30, April 1998				magazine	Paper Film Foil Converter	Self					
844		camber;baggy;defect	01-May-98	1	Hawkins, William E.	Web Stability: Film Structure Affects Web Behavior	Paper, Film & Foil Converter, vol 72, no 5, pp 28, May 1998				magazine	Paper Film Foil Converter	Self					
845		roll;ridge;wrinkle;nip;air;defect	01-Jun-98	1	Hawkins, William E.	Under the Layon Roll: The Genesis of MD Wrinkles	Paper, Film & Foil Converter, vol 72, no 6, pp 32, June 1998				magazine	Paper Film Foil Converter	Self					
846		wind;thread;path	01-Jul-98	1	Hawkins, William E.	Which Thread Path is best for your machine	Paper, Film & Foil Converter, vol 72, no 7, pp 26, July 1998				magazine	Paper Film Foil Converter	Self					
847		wind;layon_roller;deflection	01-Aug-98	1	Hawkins, William E.	Winder Considerations: Layon Roll Requirements and Options	Paper, Film & Foil Converter, vol 72, no 8, pp 26, August 1998				magazine	Paper Film Foil Converter	Self					
848		wind;layon_roller;design;tin_can	01-Sep-98	1	Hawkins, William E.	Winder Considerations: Layon Roll Contact	Paper, Film & Foil Converter, vol 72, no 9, pp 28, September 1998				magazine	Paper Film Foil Converter	Self					
849		wind;layon_roller;design;tin_can	01-Oct-98	1	Hawkins, William E.	Winder Considerations: Web Spreading at Laydown	Paper, Film & Foil Converter, vol 72, no 10, pp 28, October 1998				magazine	Paper Film Foil Converter	Self					

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2536		tension;nip;roller	01-Nov-98	1	Hawkins, William E.	Methods and Applications of Tension Isolation: Part I	Paper, Film & Foil Converter, vol 72, no 11, pp 28, November 1998				magazine	Paper Film Foil Converter	Self					
2539		nip;roller;deflection	01-Dec-98	1	Hawkins, William E.	Methods and Applications of Tension Isolation	Paper, Film & Foil Converter, vol 72, no 12, December 1998				magazine	Paper Film Foil Converter	Self					
2544		s-wrap;air_entrain	01-Jan-99	1	Hawkins, William E.	Methods and Applications of Tension Isolation	Paper, Film & Foil Converter, vol 73, no 1, pp 28, January 1999				magazine	Paper Film Foil Converter	Self					
2546		vacuum;roller;tension;traction	01-Feb-99	1	Hawkins, William E.	Methods and Applications of Tension Isolation	Paper, Film & Foil Converter, vol 73, no 2, pp 30, February 1999				magazine	Paper Film Foil Converter	Self					
2555		static;control	01-Mar-99	1	Hawkins, William E.	How to Manage Static on Nonconducting Webs	Paper, Film & Foil Converter, vol 73, no 3, pp 36, March 1999				magazine	Paper Film Foil Converter	Self					
2556		guide	01-Apr-99	1	Hawkins, William E.	Web Steering - Keeping Your Web on a Straight Path	Paper, Film & Foil Converter, vol 73, no 4, pp 28, April 1999				magazine	Paper Film Foil Converter	Self					
2540		web_handling	20-Apr-99		Hawkins, William E.	Web Handling Principles and Techniques	Society for Vacuum Coating, Conf. Proc., Chicago, April 19-21, 1999						Self					
2565		razor;slitting;edge	01-May-99	1	Hawkins, William E.	Slitting Technology - Part I: A look at Razor Slitting	Paper, Film & Foil Converter, vol 73, no 5, pp 28, May 1999				magazine	Paper Film Foil Converter	Self					
2621		razor;slitting	01-Jun-99	1	Hawkins, William E.	Slitting Technology - Part 2: Razor Slitting Continued	Paper, Film & Foil Converter, vol 73, no 6, pp 26, June 1999				magazine	Paper Film Foil Converter	Self					
2627		razor;shear;slitting;film;temperature	01-Jul-99	1	Hawkins, William E.	Slitting Technology - Part 3: The issue of Film Temperature	Paper, Film & Foil Converter, vol 73, no 7, pp 20, July 1999				magazine	Paper Film Foil Converter	Self					
2631		layon:roller:critical_speed	01-Aug-99	1	Hawkins, William E.	Winding Technology - Part I: Higher Winding Speeds	Paper, Film & Foil Converter, vol 73, no 8, pp 24, August 1999				magazine	Paper Film Foil Converter	Self					

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2636		winding;core	01-Sep-99	1	Hawkins, William E.	Winding Technology - Part II: The role of the core	Paper, Film & Foil Converter, vol 73, no 9, pp 32, September 1999				magazine	Paper Film Foil Converter	Self					
2666		winding;start;air	01-Oct-99	1	Hawkins, William E.	Winding Technology - Part III: Getting a Good Start	Paper, Film & Foil Converter, vol 73, no 10, pp 32, October 1999				magazine	Paper Film Foil Converter	Self					
2670		wind;air_entrain;tension	01-Nov-99	1	Hawkins, William E.	Winding Technology - Part IV: a look at Wind-Up Tension	Paper, Film & Foil Converter, vol 73, no 110, pp 23, November 1999				magazine	Paper Film Foil Converter	Self					
2674		wind;roll_structure;taper_tension	01-Dec-99	1	Hawkins, William E.	Winding Technology - Part V: The Tension Builds	Paper, Film & Foil Converter, vol 73, no 12, pp 26, December 1999				magazine	Paper Film Foil Converter	Self					
2675		wind;cutoff-knife;tension;turnup	01-Jan-00	1	Hawkins, William E.	Winding Technology - Part VI: Auto Roll Doffing	Paper, Film & Foil Converter, vol 74, no 1, pp 24, January 2000				magazine	Paper Film Foil Converter	Self					
5525		curl;laminate;tension;strain	01-Feb-00	1	Hawkins, William E.	Laminated Web Behavior - Curl and Its Causes	Paper, Film & Foil Converter, vol 74, no 2, pp 28, February 2000	3			magazine	Paper Film Foil Converter	Self	LaminatedCurlCauses	MiscScan	doc and pdf	24-Dec-09	
2693		trim_removal	01-Mar-00	1	Hawkins, William E.	Trim removal on film webs can cause problems	Paper, Film & Foil Converter, vol 74, no 3, pp 30, March 2000				magazine	Paper Film Foil Converter	Self					
2694		trim_removal; design	01-Apr-00	1	Hawkins, William E.	What Makes a Good Air Trim Conveying System?	Paper, Film & Foil Converter, vol 74, no 4, pp 32, April 2000				magazine	Paper Film Foil Converter	Self					
2712		trim_removal; grinder	01-May-00	1	Hawkins, William E.	Trim Disposal: What to do after Pneumatic Conveying	Paper, Film & Foil Converter, vol 74, no 5, pp 30, May 2000				magazine	Paper Film Foil Converter	Self					
2711	0	wind;slit;spread;design	01-May-00	10	Hawkins, William E.	Web Handling: Making a Slitter/Winder Upgrade work for you	Paper, Film & Foil Converter, vol 74, no 5, supplement, May 2000				magazine	Paper Film Foil Converter	Self					
2717		safety	01-Jun-00	1	Hawkins, William E.	Safety at work: attitude, information, common sense	Paper, Film & Foil Converter, vol 74, no 64, pp 30, June 2000				magazine	Paper Film Foil Converter	Self					
5747		wind;slit;edge_knurl;emboss;traction	01-Jul-00	1	Hawkins, William E.	Winding with Edge Knurls: Why and How It's Done	Paper Film Foil Converter, pp 22, Jul 2000	4			magazine	Paper Film Foil Converter	Self	WindSlitEdgeKnurl	WindGeneralScan	doc and pdf	26-Oct-09	unique

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2720	o	wind;edge_knurl,air_entrain	01-Jul-00	1	Hawkins, William E.	Winding with Edge Knurls: Why and How It's Done	Paper, Film & Foil Converter, vol 74, no 7, pp 22, July 2000				magazine	Paper Film Foil Converter	Self					
2729	o	wind;edge_knurl,air_entrain, air_knife	01-Aug-00	1	Hawkins, William E.	Alternatives to winding with edge knurls	Paper, Film & Foil Converter, vol 74, no 8, pp 22, August 2000.				magazine	Paper Film Foil Converter	Self					
2737		glossary;name;term	01-Sep-00	1	Hawkins, William E.	A glossary of Terms to Help Avoid Failure to Communicate	Paper, Film & Foil Converter, vol 74, no 9, pp 36, September 2000.	2	http://pffc-online.com/web_lines/paper_glossary_terms_help/		magazine	Paper Film Foil Converter	Self					
2766		glossary;name;term	01-Oct-00	1	Hawkins, William E.	A glossary of Descriptive Terms - Second Installment	Paper, Film & Foil Converter, vol 74, no 10, pp 32, October 2000.	2	http://pffc-online.com/web_lines/paper_glossary_descriptive_terms_4/		magazine	Paper Film Foil Converter	Self					
2770		unwind;wind;motor;eccentricity;drive;control	01-Nov-00	1	Hawkins, William E.	Keeping the Payoff Web Taut - Calculations that woork	Paper, Film & Foil Converter, vol 74, no 11, pp 22, November 2000.				magazine	Paper Film Foil Converter	Self					
2777		glossary;terminology;words	01-Dec-00	1	Hawkins, William E.	A Glossary of Descriptive Terms	Paper, Film & Foil Converter, vol 74, no 12, pp 20, December 2000.				magazine	Paper Film Foil Converter	Self					
2778		tension;control;dancer;load_cell	01-Dec-00	5	Hawkins, William E.	Controlling Your Web From Beginning to End	Paper, Film & Foil Converter, vol 74, no 12, pp 40-44, December 2000.				magazine	Paper Film Foil Converter	Self					
2781		glossary;definition	01-Jan-01	1	Hawkins, William E.	A glossary of Descriptive Terms - Fourth Installments	Paper, Film & Foil Converter, vol 75, no 1, pp 26, January 2001	2	http://pffc-online.com/web_lines/paper_glossary_descriptive_terms_2/		magazine	Paper Film Foil Converter	Self					
2782		guide;tension;control	01-Jan-01	4	Hawkins, William E.	Controlling your web from Beginning to End - Part II	Paper, Film & Foil Converter, vol 75, no 1, pp 52-55, January 2001	2	http://pffc-online.com/web_lines/paper_glossary_descriptive_terms_3/		magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2783		glossary;definition	01-Feb-01	1	Hawkins, William E.	A glossary of Descriptive Terms - Fifth Installments	Paper, Film & Foil Converter, vol 75, no 2, pp 30, February 2001	2	http://pffc-online.com/web_lines/paper_glossary_descriptive_terms/	Nip rolls: Normally a set of two rolls (the set may be made with more) that have parallel axes, with at least one roll mounted on movable supports so that the roll faces can be pressed together (nipped)	magazine	Paper Film Foil Converter	Self					
5878		glossary;definition	01-Mar-01	1	Hawkins, William E.	A glossary of Descriptive Terms - Sixth Installment	Paper, Film & Foil Converter, vol 75, no 3, pp 30, Mar 2001	2	http://pffc-online.com/web_lines/paper_web_solutions_3/	Shaftless unwind/rewind stands: Basic pieces of equipment used in holding the supply roll(s) and production roll(s) on the converting machine. These stands usually are equipped with at least one fixed (braking	magazine	Paper Film Foil Converter	Self					
2797		spread;extrude;curl	01-Apr-01	1	Hawkins, William E.	A proposal for spreading base web during melt extrusion	Paper, Film & Foil Converter, vol 75, no 4, pp 28, April 2001	2	http://pffc-online.com/web_lines/paper_web_solutions_2/	Melt extruded resin polymers on cloth and other webs sometimes result in transverse direction (TD) curl of the laminate.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5877		upgrade;rebuild	01-May-01	1	Hawkins, William E.	Web Solutions	Paper, Film & Foil Converter, vol 75, no 5, pp 28, May 2001	2	http://pffc-online.com/web_lines/paper_web_solutions/	Upgrade Can Add Years to Older Converting Machines Many older converting machines, such as slitters, coaters, and laminators, depend on the operator to make manual adjustments to windup tension	magazine	Paper Film Foil Converter	Self					
2850		tension;wind;wrinkle	01-Jun-01	1	Hawkins, William E.	Overtensioned webs and what to do about them	Paper, Film & Foil Converter, vol 75, no 6, pp 28, June 2001	2	http://pffc-online.com/web_lines/paper_overtensioned_webs/	Webs are often tensioned beyond their elastic limit in specialty-type processes such as metallizing. Usually, the high tension is in a zone where web temperature has been elevated by radiation from the metal vapor-generating process.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2854		tension;slippage;scratch	01-Jul-01	1	Hawkins, William E.	Web Scratch Solution: Regulate your Running Rolls	Paper, Film & Foil Converter, vol 75, no 7, pp 28, July 2001	2	http://pffc-online.com/web_lines/paper_web_scratch_solution/	There are many sources of scratches, but they tend to occur in the web surface, as there is relative motion between the web and its support surface. The support surface is usually a roller.	magazine	Paper Film Foil Converter	Self					
2857		web_scratch;slippage;roller;nip;deflection	01-Aug-01	1	Hawkins, William E.	More Causes, More Cures for Web Scratches	Paper, Film & Foil Converter, vol 75, no 8, pp 18, August 2001				magazine	Paper Film Foil Converter	Self					
2878		belt;crowned_pulley;roller;tracking	01-Sep-01	1	Hawkins, William E.	Belt Tracking Problems Require Careful Attention	Paper, Film & Foil Converter, vol 75, no 9, pp 28, September 2001	3	http://pffc-online.com/web_lines/paper_belt_tracking_problems/	three primary reasons for wide-belt tracking problems: the presence of nonaligned rollers; the presence of non-uniform stresses when the belts are elongated; and belts that are constructed with diagonal seams	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2885		film;slitter;edge_bead	01-Oct-01	1	Hawkins, William E.	Slitting Adhesive-Coated Low-Strength Films	Paper, Film & Foil Converter, vol 75, no 10, pp 22, October 2001	2	http://pffc-online.com/web_lines/paper_slitting_adhesivecoated_lowstrength/	Low-strength films, such PE or cast PP, sometimes are coated with an adhesive and slit into customer-sized rolls. Low-strength films do not have sharply defined yield points. Thus, they are subject to permanent width loss	magazine	Paper Film Foil Converter	Self					
2909		md_wrinkle;tin_can;film;layon_roller;air	01-Nov-01	1	Hawkins, William E.	MD Wrinkle Formation - Causes and Cures	Paper, Film & Foil Converter, vol 75, no 11, pp 22, November 2001	2	http://pffc-online.com/web_lines/paper_md_wrinkle_formation/	MD (machine-direction) wrinkle problems (sometimes called “tin canning”) still plague many converters and/or film suppliers. The two main contributing parameters are: (1) at least two persistent MD gauge bands must be present	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5876		roller;shaft;winding;deflection	01-Dec-01	1	Hawkins, William E.	Wide Web Handling and the Problems It Can Bring	Paper, Film & Foil Converter, vol 75, no 12, Dec 2001	2	http://pffc-online.com/web_lines/paper_wide_web_handling/	As new film casting machines have grown in width during the past several years, so have casting machine windups. One problem that arises with wider rolls is deflection due to roll weight.	magazine	Paper Film Foil Converter	Self					
2928		roller;nip;deflection	01-Dec-01	1	Hawkins, William E.	Wide Web Handling and the Problems It can Bring	Paper, Film & Foil Converter, vol 75, no 12, pp 20, December 2001				magazine	Paper Film Foil Converter	Self					
3051	o	book;film;web_handling;winding;roller;wrinkle	01-Jan-03	174	Hawkins, William E.	The Plastic Film and Foil Web Handling Guide	CRC PRESS, Boca Raton, 2003	10			Book		Self					
2922	o	maintenance	02-Dec-01	5	Haynes, James	Key Paper Machine Operating Factors from Paper Machine Maintenance Superintendent's Perspective	TAPPI Engineering and Finishing and Converting Conf. Proc., San Antonio, December 2-6, 2001				conference	TAPPI						
850			01-Jan-73		Hazelwood, E.		Paper Trade J., vol 157, no 29, pp 30, 1973				magazine	Paper Trade J						
5800		wind;measure;hardness;backtenders_friend;calender;control	01-Sep-93	4	Heacock, Robert	Improving cross-directional hardness control	TAPPI J, vol 76, no 9, pp 115-119, Sep 1993	2			magazine	TAPPI	Daishowa America Mill	HardnessTAPPI	WindMeasureScan	doc and pdf	22-Sep-09	
852		friction;traction	01-Dec-89		Hearle, J.W.	Friction and Slip in Textile Processes	Textile Research J, Dec 1989				magazine	Textile Research J						
853		cd;md;profile;control;model;measure	01-Oct-94	12	Heaven, E. Michael and Jonsson, Ivar M. and Kean, T. Max and Manness, Michael A. and Vyse, Robert N.	Recent Advances in Cross Machine Profile Control	IEE Control Systems, vol 14, no 5, pp 35-46, October 1994											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5608		runnability;paper;web_break;fracture;flaw	01-Mar-80	23	Heckers, W. and Hart, D. and Gottsching, L.	Fracture Mechanics of Paper (1) Theory of Fracture Mechanics	Papier, vol 34, no 3, pp 85-94, Mar 1980	3			magazine	Papier	IPC	FractureMechanicsPaper	Runnability Scan	doc and pdf	30-Dec-09	
855			01-Jul-61		Hedgepeth, J.M. et al	Analysis of Partly Wrinkled Membranes	NASA TN D-813, Jul 1961											
3348	o	defect;visual;web;inspection;scanner	26-Sep-05		Heil, Brian	More than Defect Detection - the real value of web inspection	TAPPI PLACE Conf, Las Vegas, September 26, 2005	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5026&DID=526880	automated re-wind control for defect removal that increases converting throughput is discussed	conference	TAPPI	ISRA Surface Vision					
2570		rotary;diecutter	01-Jun-99	1	Heintzelman, Skip	Are there ways to eliminate the difficulty in rotary diecutting rectangular labels	Converting Magazine, vol 17, no 6, pp 38, June 1999				magazine	Converting Magazine						
2727	0	pricing;cost;economics	01-Aug-00	3	Heintzelman, Skip	How should we price our products?	Converting Magazine, vol 18, no 8, pp 90-92, August 2000				magazine	Converting Magazine						
9997		diffusion;drying;model	01-Jan-01		Hellen, EKO and Ketoja, JA and Niskanen, KA and Alava, MA	Diffusion through Fiber Networks	J of Pulp Paper Science, 2001				journal							
856	o	tension;profile;roller;measure	06-Jun-93	18	Hellentin, P. and Eriksson, Leif G. and Johnson, P. and Kilmister, G. T. F.	Web Tension Profiles as Measured in a Rewinder and in a Printing Press	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
857	o	wrap;film;paper	18-Oct-92	14	Hellgren, B. and Matics, D.	Spiral Roll Wrapping with Separate Layers of Polyethylene and Kraft	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 337-350, Oct 18-21 1992	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5630&DID=516956	legislation requiring the collection and recyclability of all product packaging, European paper mills are being increasingly required to supply recyclable roll wrap	conference	TAPPI						
2862		blown;film;extrusion	26-Aug-01		Hellmuth, William	Blown Film Extrusion - A Primer	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Diego, Aug 26-30, 2001				conference	TAPPI	Gloucester Engineering					
858		tension;control;winding	01-Jan-79	6	Henderson, G.M.	Automatic Tension Control for Winding Superconducting Coils	IEEE, 1979											
859		CD;profile;paper;control	01-Nov-84	6	Henry, William	Cross-Machine Controls: An Update	PIMA, pp 40-45, Nov 1984				magazine	PIMA	ASI Advance					
3341	o	air_float;dryer;profile	26-Sep-05		Henry, William	How to Improve Cross-Machine Drying Profiles	TAPPI PLACE Conf, Las Vegas, September 26, 2005	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5026&DID=526536	Existing dryers may have inherent drying deficiencies or may develop uneven drying profiles over time. The cause, effect and resolution of several profile problems are discussed	conference	TAPPI	ASI Advance					
5934		dryer;air_flotation	19-Apr-10		Henry, William	Floatation Dryers: New & Expanding Applications for Air Foils	TAPPI PLACE Conf, Albaquerque, Apr 20-22, 2010	2			conference	TAPPI	Advance Systems Inc.					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
860		tissue;towel;production	01-Oct-82	3	Hepford, R. and Heuchert, Hans	Wide Tissue Winders Offer Improved Productivity and Low Convert	Pulp & Paper, vol 56, no 10, pp 109-111, Oct 1982				magazine	Pulp and Paper						
3006	o	A Well-Balanced Process Line	01-Jan-03	2	Herbert, Michael	A Well Balanced Process Line	Paper, Film & Foil Converter, vol 77, no 1, pp 48-49, January 2003				magazine	Paper Film Foil Converter	Perma-Flex					
861			19-Aug-88		Herdman, P.T. and Corte, H.	Comments on t;he Distribution of Mass Density in Paper	Pulp & Paper Canada, pp 68-71				magazine	Pulp and Paper Canada						
862		CD;profile;control;basis weight	30-Sep-83	6	Hering, Anthony	Cross-Machine Profile Control Helps Reduce Variance From Headbox	Paper Trade J., pp 38-45, Sep 30 1983				magazine	Paper Trade J						
3404	o	slitting	07-May-06	1	Herkenrath, Heinz	Increasing multi-layered shear slitting at xerox quality standards	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Dienes					
863		heat;conduct;model;measure;nonwoven	01-Mar-91		Hes, L. et al	Theoretical and Experimental Analysis of Heat Conductivity for Nonwoven Fabrics	INDA J. of Nonwovens Research, vol 3, no 3, 1991											
864		calender	01-Jan-90		Hess, H.	Modern On-line Calendering	Sulzer Tech. Review, vol 72, no 2, 1990											
865	o	calender;soft	06-Oct-91	12	Hess, H.	Soft Calenders: Can They Replace Supercalenders and Still Meet Technological Requirements	TAPPI Finishing and Converting Conf. Proc., Houston, pp 79-90, Oct 6-10 1991				conference	TAPPI						
866		calender;soft	01-May-92		Hess, H.	Germany, Soft Calenders	Paper, May 1992				magazine	Paper						
867		calender;soft	01-May-90		Hess, H. and Holik, H.	On-Line Soft Calendering - The In Alternative	Appita, May 1990				magazine	APPITA						
868		tissue;slitter	01-May-80	2	Heuchert, H.	Tissue Slitters Simple Design Leads to Builder's Success	Paper, Film & Foil Converter, vol 54, no 5, pp 188 190, May 1980				magazine	Paper Film Foil Converter						
869		belt;cylinder;density;equipment;feeding;fiber;loop;mandrel;non	09-Apr-88		Hewinson, V.K. and Barlow, R. and Fogarty, E. & Co. Ltd.	Method and Apparatus for Forming a Fibrous Cylindrical Element	U.S. Patent #4,146,188, Issued March 27, 1979				patent							

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
870	o	wind;design;air;nids	01-Oct-96	2	Heyer, Folke	New Winding Technology Relieves Reel Hardness at Stora's Hylte Mill	Pulp & Paper, pp 73-74, October 1996				magazine	Pulp and Paper						
5748		wind;two_drum;large_roll;air	01-Oct-96	2	Heyer, Folke	New Winding Technology Relieves Reel Hardness at Stora's Hylte Mill	Pulp and Paper, pp 73-74, Oct 1996	3			magazine	Pulp and Paper		WindTwoDrumAir	WindGeneralScan	doc and pdf	26-Oct-09	unique, missing last pages
5749		wind;two_drum;belted	01-Jan-99	12	Highes, Keith and Sandona, Steve and Patton, Ward	Adding Value with the New Winder Developments: Enhancements to Belt Bed Winding	Tappi Finishing and Converting Conference, 1999	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5187&DID=508482	the belt bed winder has proven to be a reliable method of producing high quality rolls of grades ranging from coated board to newsprint	conference	TAPPI	Valmet (Metso)	BeltBedWinder	WindGeneralScan	doc and pdf	06-Nov-09	commercial
871		corrugator;temp;adhesive;air_flow	01-Jul-93	10	Highton, A. Peter	Physical Aspects of Single-Facer Operation	Tappi J., vol 76, no 6, pp 130-139, July 1993				magazine	TAPPI						
872	o	roll;label	18-Oct-92	2	Hildebrand, Donald	Study to Standardize Roll Label Information	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 313-314, Oct 18-21 1992	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5630&DID=517250	no guidelines exist for proper labeling of paper rolls and because of this both the information contained and the format under which the information is presented vary widely throughout the industry.	conference	TAPPI	Self					
5750		wind;roll;lable	01-Jan-94	4	Hildebrand, Donald	TAPPI Roll/Package Labeling Guidelines	Tappi J., vol 77, no 1, pp 73-78, January 1994	4			magazine	TAPPI	Self	RollLabelHildebrand	WindGeneralScan	doc and pdf	06-Nov-09	unique

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
874	o	roll;packaging	21-Sep-97	2	Hildebrand, Donald M. and Brighton, Thomas B. and Borgel, David and Moore, J. Ross and Matics, Dan and Henderson, Tom and Bailey, Charlie	Technology Advancements and Profit Opportunities with "Film Roll Packaging Systems" Panel Discussion	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 109-110, September 21-24, 1997				conference	TAPPI	Self					
875		safety;accident;liability	22-Oct-79	7	Hill, Edward	Winding and Calendering Safety Orientation	TAPPI Finishing and Converting Conf. Proc., 1979				conference	TAPPI						
876		flutter	01-Jan-91		Hill, K.C.	Sheet Stability in a Unorun Fabric Configuration	TAPPI Sheet Flutter and Windage Problems Seminar, Nashville, 1991					TAPPI						
3056		spread;wrinkle;expander_roller	01-May-03	1	Hine, Claudia	Pillowing Puzzle	Paper, Film & Foil Converter, vol 77, no 5, pp , May 2003	1	http://pffc-online.com/mag/paper_pillowing_puzzle/	Siejkowski looked closely at WrinkleSTOP and realized that though his problem was outside the conventional application of this wrinkle-removal technology	magazine	Paper Film Foil Converter	Paper Film Foil Converter					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5893		nip_impression;paper;nip;measure;roller	01-Jan-10	2	Hine, Claudia	QC for Nips	Paper, Film & Foil Converter, vol 84, no 1, pp 40-41, Jan 2010	2	Mohawk Fine Papers uses Pressurex sensor film to extend nip roller life, maximize yields, and improve quality	Position of the bar relative to rollers, machine frame elements, and other conductors Film side to be treated or neutralized by the static bar Gap between the static bar and the film surface	magazine	Paper Film Foil Converter	Self					
5930		roll_handling;packaging;palletizing	01-Apr-10	1	Hine, Claudia	Riding the Rails	Paper, Film & Foil Converter, vol 84, no 4, pp39, Apr 2010	2		Green Bay Packaging reports zero product damage when shipping rolls since it switched to Rollguard recylded fiber cradles	magazine	Paper Film Foil Converter						
9984		tension;nip;model	01-Jul-98	21	Hinge, KC and Maniatty, AM	Model of Steady Rolling Contact between Layered Rolls with Thin Media in the Nip	Engineering Computations, vol 15, no 7, pp 956-976, 1998				journal							
877		wind;stress;model	01-Jan-59		Hirai, T.	On the Stress Distribution of the Yarn Package based on Polar Anisotropic Consideration	Faculty of Engineer, Osaka City, University, vol 1, 1959											
6038		heat;seal;convert	01-Jan-09	267	Hishinuma, Kazu	Heat Sealing Technology and Engineering for Packaging	DEStech Publications, Inc	10			book	DEStech						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6087		heat;seal;packaging;design	01-May-11		Hishinuma, Kazuo Ph.D	Heat Sealing Technology and Engineering for Packaging Principles and Applications	DESTech Publications, Inc	10	http://www.destechpub.com/pageview.asp?PageID=33332	Beginning with the basics of heat-sealing processes and thermoplastic materials, the book explains, with numerous formulas and original experimental data, all the key parameters	Book							
9911		film;gel;defect;detect	01-Jan-12	5	Hissman, Oliver	Why counting adds up to success	Packaging Films, 1-2012, pp 10-13, Jan 2012	4		Self learning systems recognize, photo and classify defects	magazine	Packaging Films	Optical Control Systems GmbH					
9825		fillm;gel	10-Jun-12		Hissmann, Oliver	The Gel Count Standard	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	OCS Opical Control Systems GmbH					
3314	o	wind;model;3D	05-Jun-05	10	Hoffecker, P. and Good, James K.	Tension Allocation in Three Dimensional Wound Roll Models	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC	WHRC					
878		property;film	05-Apr-90		Hoffman, D. and Geis, D. and Janke, A.	Structure Investigations on Drawn High-Density Blown PE Films	J. of Applied Polymers				magazine							
9950	o	wind;blown;film;air	02-Jun-13	7	Hoffman, Frank and Kirchhoff, Tim and Heinzler, Felix	Winding of plastic barrier films	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	3			conference	WHRC	Windmoller & Holscher					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6050	o	nip;lateral;guide	13-Jun-11		Hoffmann, Peter, and Desch, Michael, and Dorsam, Edgar	Movement of Layers and Induced tension in the Nip Area Between Drum and Paper Layers	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15	3			conference	WHRC	Stora Enso and Technische Universitat, Stora Enso Research					
879		unwind;splice;automation	01-Sep-89		Hogrebe	New Developments in Continuous Unwinding for Off-Line Coaters to Increase Successful Splice Rate	Papier, Sep 1989				magazine							
880		draw	01-Jan-85		Holik, Herbert	The More Rapid Run of Paper through the Paper Machine	Wochenblatt fur Papierfabrikation, 1985											
881		property;sheet;density;strength;math;fiber	01-Sep-73	4	Hollmark, H. and Andersson, Hans and Perkins, Richard W.	Mechanical Properties of Low Density Sheets	Tappi J., vol 61, no 9, pp 69-72, Sep 1973				magazine	TAPPI						
5827		wind;air_entrain;mode;measurel	01-May-92	81	Holmberg, Michael, W	Theoretical and Experimental Studies of Air Entrainment in Wound Rolls	OK. State Univ., WHRC, M.S. Thesis, May 1992	4			thesis	WHRC	WHRC	AirEntrainRollsHolmberg	WindModelScan	doc and pdf	23-Dec-09	
5720		wind;density;measure;reel	16-Mar-87	14	Holmer, H and Larsson P and Svahn, T and Westman, L	Changes in Reel-Density Curves Induced by Different Winding Parameters	Advances and Trends in Winding Technology, Swedish Newsprint Research Center, pp 153-166, 1987	2			conference	STFL	Holmens Bruk	DensityReelHolmer	WindDensityScan	doc and pdf	07-Oct-09	
9926		tension;control;web-break;runnability	01-Feb-13	1	Holmes, Anthony G	The role of tension control in web-break prevention	Converting Quarterly, qtr 1, 2013	2			magazine	AIMCAL	Montalvo					
9806			10-Jun-12		Holmes, Dr Nigel	The Nanocoatings Formulation Toolkit	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	MacDermid Autotype					
10055		nano-coatings	08-Jun-14		Holmes, Nigel	Nanocoatings: Principles and Practice	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014	5			conference	AIMCAL	self					

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5463		coating;coaters;test	27-Mar-96	6	Holt, Larry	Coating Systems: Putting it all together	CEMA Shortcourse The Coating and Lamination Process Substrates, Coatings and Equipment, March 27, 1996	2			shortcourse	CEMA	Michelman	CoatingSystemsMichelman	CtgCema96	doc and pdf	01-Oct-09	
884		yankee;dryer;roller;machine;grind	01-Nov-95	4	Holton, John C. and Melkert, Sjaak	Safe Yankee Grinding Practices	Tappi J., vol 78, no 11, pp 68-71	4	http://www.tappi.org/s_tappi/secpublications.asp?CID=4849&DID=518390	Safe grinding practices include appropriate use of interlocks, personal protective equipment, guards, procedures, and dust collection equipment. Adherence to local and federal guidelines	magazine	TAPPI						
885		nip	01-Apr-77		Homer, E.M. et al	Elastic Theory of Nip Stresses and Hysteresis Effect	Tappi J., vol 60, no 4				magazine	TAPPI						
3104		air_entrain	01-Jan-99	100	Hong, E.Y.	Aerodynamic Forces ona Web Subjected to the Coanda Air Jet	MS Thesis, WHRC, Oklahoma State Univ, 1999				Thesis	WHRC						
3505	o	dancer;aerodynamic	10-Jun-07	8	Hong, E.Y. and Shelton, J.	Aerodynamic Dancer in Web Handling	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC						
886	o	lateral;guide;wind;unwind;application	06-Jun-93	12	Hopcus, Kenneth I.	Unwind and Rewind Guiding	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC	Fife					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3357	o	guide;accuracy	01-Nov-05	2	Hopcus, Kenneth I.	Understanding web guide accuracy	Converting Magazine, vol 23, no 11, pp 36-37, Nov 2005	4	http://www.convertingmagazine.com/article/310595-Understanding_web_guide_accuracy.php	one of the most common questions we encounter is, "How accurate is your web guide?" If you ever get a quick answer such as "typically +/- X mils," you should be suspicious. Why	magazine	Converting Magazine	Fife					
3360	o	guide;sizing	01-Dec-05	2	Hopcus, Kenneth I.	Sizing Web Guide Actuators	Converting Magazine, vol 23, no 12, pp 34-36, Dec 2005	4	http://www.convertingmagazine.com/article/308481-Sizing_web_guide_actuators.php	As far as the web guide's components are concerned, sensors and controllers are pretty hard to kill; and the likely weakest link is the actuator. If the actuator fails, your worries will soon return	magazine	Converting Magazine	Fife					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3367	o	guide;sizing	01-Feb-06	3	Hopcus, Kenneth I.	What type of web guide do you need?	Converting Magazine, vol 24, no 2, pp 32-35, Feb 2006	4	http://www.converting magazine.com/article/309234-What_type_of_web_guide_do_you_need_.php	One—determine where you need lateral position accuracy. Two—choose which web guide will best meet your needs at each guiding location. Three—Install the web guides in each location following the application guidelines	magazine	Converting Magazine	Fife					
887		shaft;beam;roller;design;book	01-Jan-70		Hopkins, R.B.	Design Analysis of Shafts and Beams	McGraw-Hill Book Co. Inc., New York, 1970											
5609		runnability;paper;web_break;flaw;contaminant;measurement;tension;winder	01-Dec-62	8	Hopkins, R.M. and MacPherson, R. and Morin, L.J.	Analysis of the Effects of Centrifugal Pulp Cleaners and Pressure Screens on Newsprint Runability	Pulp and Paper Magazine of Canada, vol 63, no 12, pp 563-570, Dec 1962	3			magazine	Pulp and Paper Canada	Consolidated Paper	PulpClean NewsprintRun	Runnability Scan	doc and pdf	30-Dec-09	
889			01-Dec-81	12	Hornberger, G.M. et al	An Approach to the Preliminary Analysis of Environmental System	J. of Environmental Management, pp 7-18, Dec 1981				magazine							
890		static;eliminate;safety;book	01-Jan-82		Horvath, T. and Berta, I.	Static Elminations	John Wiley and Sons, Letchworth, UK, 1982											
891		accident;liability;death	01-Mar-82		Horwood, E.	Investigation After Fatal Reeler Slitter Accident	Sogat J: 16											
892		winding;stress	01-Jan-78	7	Hoschl, Cyril	Winding Force And Stress Pattern Of Tension-Coiled Strip	Acta Technica Csav, no 4, 1978											
3572	o	measurement;laser	06-May-08	1	Hosler, Bob	Non-Contact Measurement in Web Handling Processes	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	Keyence					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2652	o	nip;mechanics;model	03-Oct-99	8	Hovda, Elisabeth and Irgens, Fridtjov and Olen, Jan Erik	Non-Linear Modeling of Paper in a Hard-nip Calender	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 153-160, October 3-7, 1999				conference	TAPPI						
893		calender; bar	01-Jun-63	17	Howe, B.I. and Cosgrove, J.C.	Calender Stack Barring on Newsprint Machines	Pulp and Paper Mag. Can., vol 64, no 6, pp T259-T274, June 1963				magazine	Pulp and Paper Canada						
3256	o	splice;speed	24-Oct-04		Hubbard, Charles	The Challenges of High Speed Splicing	AIMCAL Fall Tech Conf, Charleston, October 24-27, 2004					AIMCAL	Black-Clawson					
894	o	curl	06-Oct-91	8	Huff, L.A. and Mann, L.A.	Curl Control: a New and Unique Approach	TAPPI Finishing and Converting Conf. Proc., Houston, pp 71-78, Oct 6-10 1991	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5678&DID=516374	demonstrate the controlled delivery of steam utilizing a Coanda nozzle* as a superior decurling medium	conference	TAPPI						
2898	o	rubber;cover;rollers	22-Oct-01		Huff, Stephen	Importance of Rubber Rolls to Your Process	AIMCAL Fall Tech Conf, Oct 22-24, 2001					AIMCAL	ABBA					
2975	o	rubber;roller;nip;machine;crown;application	21-Oct-02		Huff, Stephen	The Advantages of Properly Specifiying a Rubber Roller - To Crown or Not to Crown, That is the Question	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL	ABBA					
2999	o	rubber;roller;nip;machine;crown;application	01-Dec-02	5	Huff, Stephen	How to specify rubber rollers	Converting Magazine, vol 20, no 12, pp 48-53, December 2002				magazine	Converting Magazine	ABBA					
3152	o	roller;rubber;nip;roundness;wrinkle	26-Oct-03		Huff, Stephen	Improving Your Lamination Utlizing Rubber Rolls or Where Did That Wrinkle Come From? (Abba Rubber)	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003					AIMCAL	ABBA					

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3247	o	rubber_roller;design	24-Oct-04		Huff, Stephen	Technology to Better Your Process	AIMCAL Fall Tech Conf, Charleston, October 24-27, 2004					AIMCAL	ABBA					
3207	o	rubber:roller	25-Oct-04	1	Huff, Stephen	Thechnology to "Better' Your Process	AIMCAL Fall Tech Conf, Charleston SC, Oct 24-27, 2004					AIMCAL	ABBA					
3442		nip;roller;pressure;maintenance;troubleshoot	23-Oct-06	1	Huff, Stephen	New methods to analys the steel to rubber roller interface or what's happening to your nip	AIMCAL Fall Tech Conf Proc, Reno, October 22-25, 2006					AIMCAL	ABBA					
3577	o	roller;measurement	06-May-08	1	Huff, Stephen	What is Your Roller's True Shape and Why Does it Matter?	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	Imperial Rubber Products					
9833		roller;lean	22-Oct-12		Huff, Stephen	A Study of How Lean Manufacturing Benefits both Manufacturers and Customers	AIMCAL Web Coating Conference, Myrtle Beach, Oct 22-24, 2012			While the Lean methodology has greatly improved our productivity and efficiency, what difference does that make to our customers or to the industry in general?	conference	AIMCAL	Imperial Rubber Products					
14136		roller;repair;maintenance;grind;diagnose;troubleshoot	09-Sep-16	1	Huff, Stephen	Your Non-Functioning Process Roller Could Be The Key to Improving Your Web Machine	AIMCAL Fall US Web Conf, Memphis, Sept 9-12, 2016	4			conference	AIMCAL	Imperial Rubber					
10083		roller;rubber;cover;temperature;dimension;troubleshoot	20-Oct-14		Huff, Steven	Does Temperature affect the Performance of My Elastomeric Covered Roll?	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014	4			conference	AIMCAL	Imperial Rubber Products					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2649	o	winder;large_roll	03-Oct-99	12	Hughes, Keith and Sandona, Steve and Patton, Ward	Adding Value with New Winder Developments: Enhancecements to Belt Bed Winding	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 113-124, October 3-7, 1999				conference	TAPPI						
895		slit;laser	01-Dec-91		Hulsbusch, W.	Laser Cutting of Plastic and Fibrous Materials	Pap. Kunstst. Verarb., Dec 1991											
896		print;control	01-Sep-90		Hunter, L.	Electronic Press Controls Enhance Narrow Web Print Quality	Flexo, Sep 1990				magazine							
897		hardness;schmidt hammer	01-Jul-71	1	Hurst, F.	Hardness of Paper Rolls (Using Schmidt Concrete Test Hammer)	Tappi J., vol 54, no 7, pp 1177, Jul 1971				magazine	TAPPI						
5688		yankee_dryer;roller;roundness;measure;vibration	01-Jan-93	3	Hussain, Mirza S	Problems associated with rolls in nip	Tappi J, vol 76, no 1, pp 246-248, Jan 1993	4			magazine	TAPPI	Vibration Consultants Inc	RollNipVibrationHussain	VibrationScan	doc and pdf	01-Oct-09	
5802		wind;measure;strain_gage;tension;pressure	01-Aug-68	3	Hussain, S.M. and Farrell, WR and Gunning, JR	Most paper in the roll is in unstable condition	Canadian Pulp and Paper Industry, pp 52-54, Aug 1988	3			magazine	Canadian Pulp & Paper Ind	Abitibi Paper	RollUnstableHussain	WindMeasureScan	doc and pdf	22-Sep-09	
5801		wind;measure;core;moisture;pressure	01-May-77	3	Hussain, S.M., Farrell, W.R. and Gunning, J.R.	Roll winding - causes, effects and cures of loose cores in newsprint rolls	Tappi J, vol 60, no 5, pp 112-115, May 1977	3			magazine	TAPPI	Abitibi Paper	LooseCoresHussain	WindMeasureScan	doc and pdf	22-Sep-09	
3234		humidity;moisture;paper;printing;control	01-Sep-04	1	Husson, Pierre A.	Humidification, the Rx for RH	Paper, Film & Foil Converter, vol 78, no 8, pp 81-83, September 2004	4	http://pffc-online.com/mag/humidification_tech_report/	Converters commonly face heating season problems caused by dry air. These problems include sheet separation, misfeeds, warping and dimensional changes,	magazine	Paper Film Foil Converter	Husson Inc					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
900		board;twist;warp;curl	01-Apr-95	4	Hutten, Irwin M.	Linerboard: the relationship between polar angle profile and twist warp	Tappi J., vol 78, no 4, pp 189-192, April 1995	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4743&DID=518625	Hypothetical examples of fiber orientation profiles in linerboard rolls are used to illustrate how these profiles relate to the problem of twist warp in box plants	magazine	TAPPI						
901		Winding;*	01-Jan-67	166	Hutzenlaub, Armin	Static and Dynamic Effects During the Winding of Films	Kunststoffe 57, pp 163-165, 1967											
10076		roller;corona;treat;rubbber;design	01-Sep-14	5	Hylberg, Bruce	Corona-treating roll covering technology and innovation: Part 1	Converting Quarterly, qtr 3 2014	4			magazine	AIMCAL	American Roller					
2535		roller;heat	01-Nov-98	4	Hyllberg, Bruce	Advancements in Electrically-Heated Rollers	Converting Magazine, vol 16, no 11, pp 58-63, November 1998				magazine	Converting Magazine	American Roller					
2899	o	roller;heated	22-Oct-01		Hyllberg, Bruce	Heated Rollers	AIMCAL Fall Tech Conf, Oct 22-24, 2001					AIMCAL	American Roller					
3380		roller;heat	01-May-06	3	Hyllberg, Bruce	Heat transfer rolls	Converting Magazine, vol 24, no 5, pp 4-44, May 2006	2	http://www.convertingmagazine.com/article/311386-Heat_transfer_rolls_Increasing_speed_reducing_scrap.php	Hot oil from a remote reservoir is pumped in and out of a hollow or double-shell roller. To cause heat flow from the oil inside the roller to the roller surface where it contacts the web, the oil must be at a higher temperature	magazine	Converting Magazine	American Roller					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
10106		corona_treat;roller;cover;static	01-Dec-14	3	Hyllberg, Bruce	Corona-treating roll covering technology and innovation	Converting Quarterly, qtr 4 2014	4			magazine	AIMCAL	American Roller					
2764	o	optical;alignment;roller;wrinkle	16-Oct-00		Hyman, Dan	The Real Benefits of Optical Alignment	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL						
902		periodic;fft;formation;2d;profile	01-Mar-95	7	I'Anson, Stephen	Identification of periodic marks in paper and board by image analysis using two-dimensional fast Fourier transforms part 1	Tappi J., vol 78, no 3, pp 113-119, March 1995	5	http://www.tappi.org/s_tappi/sec publications.asp?CID=4847&DID=518594	Detection, dimensional measurement, fourier analysis, image analysis, marking, paper, paper boards, periodic variations, problem solving	magazine	TAPPI						
903		periodic;fft;fabric;2d;profile	01-Jul-95	10	I'Anson, Stephen	Identification of periodic marks in paper and board by image analysis using two-dimensional fast Fourier transforms - Part 2 forming and press section marks	Tappi J., vol 78, no 7, pp 97-106, July 1995	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4738&DID=518355	mechanisms causing marks in the press and forming sections of the machine and their relevance to detection of the resulting pattern. The conclusions drawn are based on 4 years of investigations of real cases of marking including around 100 reports	magazine	TAPPI						
3337		drive;upgrade	01-Jun-05	3	Icso, Andre	A case for (Drive) retrofits	Paper, Film & Foil Converter, vol 76, no 6, pp, June 2002				magazine	Paper Film Foil Converter	Circonix					
2943	o	maintenance;cost;return	01-May-02	1	Idhammar, Christer	Tough Choices	Pulp & Paper, vol 76, no 5, pp 29, May 2002				magazine	Pulp and Paper						

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9803			10-Jun-12		Ikin, Dr Bruce and Benkreira, Pfo Hadj	Thin Film Slot Coating in a Rarefied Low Viscosity Gas	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Univ of Bradford					
3317	o	core;vibration;failure	05-Jun-05	10	Ilomaki, M.	On the Durability of Cores and Rest Roll Dynamics	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC	Sonoco					
3082	o	wind;model;core	01-Jun-03	8	Ilomaki, M. and Jorkam, M.	A Study of CD Elongation of Core in Winding	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC						
905		defect;detection	01-Sep-91		Ilvonen, P. and Martel, F.	Defect Detection and on-line Analysis of Coated Papers	Appita, Sep 1991				magazine	APPITA						
906		wrinkle	01-May-90		Ilvonen, P. and Vierimaa, P.	Wrinkles: Present Problem or Past	EUCEPA Conf. Proc., Stockholm, pp 151-158May 1990				conference							
907		wrinkle	01-Nov-91		Ilvonen, Peeka	Wrinkles, Present Problem or Past	Appita, Nov 1991				magazine	APPITA						
3720	o	fabric	07-Jun-09	15	Immonen, Eero and Bergstrom, Fredrik and Nurmi, Simo and Lehtinen, Antti and Juppi, Kari and Martinsson, Lars	Computation of Span Length Variations due to Out-of-round Material Rolls	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC	WHRC					
908		cutting;efficiency;precision;quality;reel;tension;sheeter;slitt	01-Jan-74		Ingram, G.D.	Winders and Sheet Cutters	Paper Technology & Industry, vol 15, no. 1, pp 29-37 (T17-25); discn,: 37-9 (T25				magazine	Paper Technology						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
909		automation;winder;drum;nip;design	01-Aug-83	4	Ingram, G.D.	Finishing Development of the 80s	Paper Technology & Industry, vol 24, no 5, pp176-179				magazine	Paper Technology						
2822	o	wind;fem;measure;reel_spool;size	11-Jun-01	10	Innala, M. and Vanninen, R.	Experimental and Numerical Studies of the Reelspool and the Parent Roll Interaction Under Gravity Forces	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC						
910		paper;property	01-Mar-81		Ionides, G. and Mitchell, J.G. and Curzon, F.L.	A Theoretical Model of Paper Response to Compression	CPPA											
911		property;tear;tension;runnability;	01-Dec-77	7	Ionides, G.N., Jackson, M and Ranger, A.E. and Trigg, A.R.V.	Tear and Tensile Characteristics of Newsprint Related to Its Use	Paperi Puu, vol 59, no 12, pp 804 807-810 813-814, Dec 1977				magazine							
912		property;paper;board;friction	01-Dec-90		Ioue, M. and Gurnagul, N. and Aroca, P.	Static friction properties of Linerboard	Tappi J., vo 73, no 12, pp 81, 1990.	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4712&DID=519263	converting and handling operations require linerboard with a high friction coefficient. Manufacturers of corrugated board are expressing concern about the increased use of recycled linerboard, which is more slippery than virgin	magazine	TAPPI						
913		flutter	01-Jun-90		Irvine, H.M.	On the Free Vibrations of Suspended Cables with Frictional End Constraint	J. of Applied Mechanics, Jun 1990				magazine	J Applied Mechanics						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
914	o	convert;train	18-Oct-92	6	Irwin, Daniel and Ogle, J.T.	Systematic Traning as a Contributing Factor to Return on Investment for a Tissue Converting Plant Expansion	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 91-96, Oct 18-21 1992				conference	TAPPI						
915		wind;maintenance;textile	01-May-91		Isaacs, M.	Top Winder Maintenance	Textile World, May 1991				magazine							
10097		extrusion;die;design;gage;profile	20-Oct-14		Iuliana, Sam	Flat Extrusion Die Channel Features that Improve Coextrusion Uniformity	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014				conference	AIMCAL	Nordson					
10104		extrusion;die;model	20-Oct-14		Iuliano, Sam	Extrusion Die Modeling	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014				conference	AIMCAL	Nordson Extrusion Dies Industries					
2860		cast;blown;film	26-Aug-01		Ivey, Jan	A Comparison of Cast and Blown Film Properties and Processes	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Diego, Aug 26-30, 2001	3	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=10938&DID=556442	present a comparison between the blown and the cast film process for the production of barrier films. So a comparison of both extrusion processes for 9-layer film	conference	TAPPI						
2600	o	wind;hardness;measurement;online	06-Jun-99	10	Jaafar, H. and Hamad, W. and Kabore, P. and Wang, H.	On-Line Measurement of Rolls' Coefficient of Restitution	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC						

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2815	o	wind;model;measure	11-Jun-01	10	Jaafar, H. and Hamad, W.Y. and Kabore, P. and Wang, H.	Structural Evaluation of Roll Quality and In Roll Stress Analysis Using a Novel On-LineMeasurement Technique	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC						
9815		defect_detect;opacity;sensor	10-Jun-12		Jack, Andrew	A Novel QA Approach to combined in-line Defect/Pinhole Detection and Coating Opacity Measurement	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Bobst_general Vacuum					
916		property	01-Oct-76	4	Jackson, J.W.	Edgewise Compressive Testing of Paperboard by a New Method	Pulp & Paper Canada, vol 77, no 10, pp 43-46				magazine	Pulp and Paper Canada						
917		film;coestrusion;troubleshoot;caliper	01-Nov-94	4	Jackson, Paul H.	Film Coextrusion: a troubleshooting guide	Converting Magazine, pp 38-43, November 1994				magazine	Converting Magazine						
2755	o	management;efficiency	16-Oct-00		Jacobson, Rick and Dages, Bob	Integration of Factory Management and the Coating Machine for Real Manufacturing Results	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL						
5610		runnability;paper;web_break;measurement;statistics;tension;winder	01-Jul-87	2	Jaehn, A.H.	Web Breaks: Statistical Analysis Made Easy	Tappi J., vol 70, no 7, pp 197-198, July 1987	4			magazine	TAPPI	Consolidated Paper	WebBreak Statistics	Runnability Scan	doc and pdf	30-Dec-09	
919		data_acquisition	01-May-91		Jaehn, A.H.	Using Check Sheets for Efficient Data Collection	Tappi J., vol 74, no 5, May 1991				magazine	TAPPI	Consolidated Paper					
920		qc	01-Jun-93	2	Jaehn, A.H.	Classification of Defects - Putting Quality in Perspective	Tappi J., vol 6, no 6, June 1993				magazine	TAPPI	Consolidated Paper					
9824		coat	10-Jun-12		Jahromi, Shahab	Freshure Coatings: Environmentally Friendly Barrier Coatings	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Knowfort Technologies BV					

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5751		wind;time_cycle;productivity	01-Oct-92	1	Janousek, Larry	Mill boosts rewinder production 32 percent	PIMA Magazine, pp 57, Oct 1992	1			magazine	PIMA	Self	WindProductivityJanousek	WindGeneralScan	doc and pdf	06-Nov-09	trivial
921	o	wind;productivity;time_cycle	01-Oct-92	2	Janousek, Larry	Mill boosts rewinder productivity 32 percent	PIMA Magazine, pp 57-58, Oct 1992				magazine	PIMA	Self					
922		machine;vibration	17-Oct-77	10	Jarrett, K.M.	Using Vibration Analysis in the Paper Industry to Improve Productivity	TAPPI Finishing and Converting Conf. Proc., 1977				conference	TAPPI						
923			01-Aug-77		Jartti, P. et al	Ultrasonic Method for Web Speed Measurement	Tappi J., vol 60, no 8, pp 117, Aug 1977				magazine	TAPPI						
14121	o	coat	07-Jun-15		Jee, C	A Study on Strip Crossbow Correction for Uniform Coating Weight Control	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	university					
924		adjustment;cutting;density;dimension;drum;force;gyration;length	16-Mar-76		Jennerjahn, B.M.	Apparatus and a Method for Slitting and Winding Elongated Sheet	U.S. Patent #3,944,150, Issued March 16, 1976				patent							
6064		length;speed;measure;sensor	06-Apr-11		Jensen, Les	The Development of a New Non-Contact Laser Gauge That Can Measure the Length and Speed of Moving Product with High Accuracy	ICE USA 2011 Tech Program	3			conference	ICE AIMCAL	Beta LaserMike					
5573		roller;rubber;calender;nip;pli;calculation;hardness	22-Oct-99	10	jmp	Nip Width and PLI Calculations for Rubber Covered Rollers	unknown	4			report	jmp	unkonwn	NipWidthPLIjmp	RollerScan	doc and pdf	04-Dec-09	unusual

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2587		friction;measure	01-May-98		Johansson, A. and Fellers, C. and Gunderson, D. and Haugen, U.	Paper Friction - influence of measurement conditions	Tappi J, vol 81, no 5, pp ;175, May 1998.	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4764&DID=518810	An apparatus was constructed to study the factors influencing measurement of paper friction. The apparatus consists of a sled that slides on a horizontal table	magazine	TAPPI						
925		dry;tissue;infrared	01-Apr-90		Johansson, L. and Werner, B.	Infrared Technique Dries Tissue Paper Effectively	Svensk Papperstidn, Apr 1990				magazine							
3222	o	tension;control	29-Aug-04		John Campbell	Film Web Tensions and Tension Control Systems and Applications	TAPPI PLACE Conf, Indianapolis, August 29, 2004				conference	TAPPI	Nexen					
926	o	roll;maintenance;quality;thermal	06-Oct-96	6	Johnes, E.H. and Moore, R.H.	On the Use and Care of Supercalender Rolls	TAPPI Finishing and Converting Conf. Proc., Bal Harbor, FL, pp 141-146, Oct 6-9, 1996				conference	TAPPI						
927		quality control;optoelectronic	01-Sep-78		Johnk, Dirk	Optoelectronic Quality Control of Running Webs Using the REGIST	Siemens Review, pp 416-419, Sep 1978											
928		core	01-Jan-85		Johnson, Darrel	Taking Core Manufacture Out of the Dark Ages	Calendering and Winding Technology, 1985, TAPPI Press, pp 111-											
929	o	slit	24-Oct-93	16	Johnson, Darrel	Theoretical vs Practical Shear-Cut Slitting	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 197-212, Oct 24-27 1993	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5578&DID=523486	This is a technical report to review the selection, installation, set-up, operation and maintenance of shear-cut longitudinal slitters.	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
930		paper;steam;dryer;roller;spoiler_bar;failure	01-Apr-96	8	Johnson, Jim and Thielsch, Helmut and Freeman, Susan	Catastrophic Failure of Cast Iron Dryer Roll Caused by Severe Erosion Resulting from Spoiler Bar Failures	Tappi J., vol 79, no 4, pp 83-89, April 1996	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5471&DID=514418	The failure was the result of spoiler bars which had been installed eight years earlier on the inside of the dryer can. The spoiler bars separated at the self-tapping screws and spring holders.	magazine	TAPPI						
931		slitter;	01-Oct-79		Johnson, K.A.	What Cameron is Doing to Advance Slitter Winding Technology	Paper Age, vol 15, no 10, pp 11-13				magazine	Paper Age						
932		nip;contact;stress;book	01-Jan-95		Johnson, K.A.	Contact Mechanics	Cambridge University Press, 1985				Book							
933		nip;contact;stress	19-Apr-88	10	Johnson, K.L.	Tangential Tractions and Micro-slip in Rolling Contact												
934	c	property;model	01-Mar-84	7	Johnson, M.W. Jr., and Urbanik, T.J.	Nonlinear Theory for Elastic Plates with Application to Paper	J. of Applied Mechanics, Transactions of the ASME, vol 51, Mar 1984				magazine	J Applied Mechanics						
935	o	core;fiber	01-Oct-89	2	Johnson, Michael	Fiber Core Usage in Rotogravure Printing	TAPPI Finishing and Converting Conf. Proc., Kansas City MO, pp 129-140, Oct 1-5 1989				conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
936	o	roll;packaging	21-Sep-97	2	Johnson, Michael	Repulpable Roll Packaging	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 107-108, September 21-24, 1997	3	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=5326&DID=511914	Three or four years ago the demand for recyclable or repulpable packaging was intense. The roll packaging industry tried to meet this demand in a number of ways	conference	TAPPI						
2664		calender;wind;sheet;book	01-Jan-99	360	Jokio, Mikko	Papermaking Part 3, Finishing	TAPPI PRESS, 1999	10	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=9048&DID=514564	Twenty-four detailed chapters are divided into four main sections: calendering, reeling and winding, roll wrapping and handling, and sheet finishing	Book	TAPPI						
5488		material;modulus;strength;paper;measurement	01-May-68	7	Jones, Alan R.	An Experimental Investigation of the In-Plane Elastic Moduli of	Tappi J., vol 51, no 5, pp 203, May 1968	3			magazine	TAPPI	IPC	InplaneModuliPaper	MaterialScan	doc and pdf	29-Dec-09	
938		roller;air_entrain;traction	08-Nov-92	9	Jones, Dillwyn P.	Air Entrainment as a Mechanism for Low Traction on Rollers and Poor Stacking of Polyester Film Reels and its Reduction	ASME Winter Annual Mtg., Anaheim, ASME, AMD-Vol 149, pp 123-131, Nov 8-13 1992						Self					
2825	o	roller;traction;measurement;model	11-Jun-01	10	Jones, Dillwyn P.	Traction in Web Handling: A Review	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3408	o	computer;database;internet;web_handling	07-May-06	1	Jones, Dillwyn P.	Web handling experts go on-line	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Self					
3514	o	camber;steering	10-Jun-07	8	Jones, Dillwyn P.	Web Sag and the Effect of Camber on Steering	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC	Self					
3555	o	winding;caliper;variation	06-May-08	1	Jones, Dillwyn P.	Solutions for Winding Multi-Layer and Patterned Web	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	Self					
5960	o	literature;web_handling;internet;computer	18-May-10	1	Jones, Dillwyn P.	Web Handling Experts Go On-Line (2010 Update)	Applied Web Handling Conf, AIMCAL AWEB, Rochester, May 17-20	4	http://www.aimcal.org/association/aweb10/abstracts.asp?RECORD_KEY=filename&filename=jones2	In 2006, at the first Applied Web Handling Conference, the author presented a review of resources available on the internet (websites, downloads, links etc). In the time since then, some great new information collections	conference	AIMCAL	self	AWEB/AWEB10	AWEB2010	pdf	04-Jun-10	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5950	o	curl;lamination;tension	18-May-10	1	Jones, Dillwyn P.	Curl in the Lab and on the Machine	Applied Web Handling Conf, AIMCAL AWEB, Rochester, May 17-20	4	http://www.aimcal.org/association/aweb10/abstracts.asp?RECORD_KEY=filename&filename=jones1	Some sources of curl will be listed. Many laminate curl problems can be understood by considering the mismatch of elastic, thermal and moisture expansion strains between the constituent plies	conference	AIMCAL	self	AWEB/AWEB10	AWEB2010	pdf	04-Jun-10	
9860		wind;caliper;profile	14-Jun-12		Jones, Dillwyn P.	Reducing Roll Faults Caused by Thickness Non-Uniformity	AIMCAL Web Handling Conference, Prague, Jun 14-15, 2012	4		baggy lanes and wrinkles; also roll stacking may be poor. Averaged, rather than single scan, thickness profile	conference	AIMCAL	self	WindGage VarJones	WindScan	ppt	27-Jul-12	
9880		wind;caliper;profile	22-Oct-12		Jones, Dillwyn P.	Reducing Roll Faults Caused by Thickness Non-Uniformity	AIMCAL Web Handling Conference, Myrtle Beach, Oct 22-23, 2012	4		baggy lanes and wrinkles; also roll stacking may be poor. Averaged, rather than single scan, thickness profile	conference	AIMCAL	self				27-Jul-12	
10064		laminate;curl;heat;model	08-Jun-14		Jones, Dilwyn	Modellling Bowing Distortion in Plastic Electronics Panels	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014	5			conference	AIMCAL	self					
10046		wind;thin;roll_defect	08-Jun-14		Jones, Dilwyn	The Challenge of Winding Thin Materials	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014				conference	AIMCAL	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
10088		winding;wrinkle;tension;thin	20-Oct-14		Jones, Dilwyn	The Challenge of Winding Thin Materials	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014	4			conference	AIMCAL	self					
14161		wrinkle;model;measurent;heat	30-May-16	1	Jones, Dilwyn	Keeping webs wrinkle-free and dimensionally stable after heating	AIMCAL Europe Web Conf, Dresden, May 30 - June 2, 2016	4			conference	AIMCAL	self					
6042	o	tension;model;temperature;slip	13-Jun-11	19	Jones, Dilwyn and McCann, M. and Abbott, Steven	Web Tension Variations Caused by Temperature Changes and Slip on Rollers	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15				conference	WHRC	Emral Ltd, McCann Science, TCNF Ltd					
9947	o	roller;model;baggy_web	02-Jun-13	20	Jones, Dilwyn P	The behavior of a flexible web in contact with a roller	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	2			conference	WHRC	self					
14131	o		07-Jun-15		Jones, Dilwyn P	Dimensional Stability of Substrates for Printed Electronics	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	university					
9943	o	heat;wrinkle;roller;model	02-Jun-13	15	Jones, Dilwyn P and McCann, Michael J and Bishop, Charles A and Abbott, Steven	Wrinkle intitiation and development in heated webs on drums	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	4			conference	WHRC	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3293	o	roller;expansion;trough;wrinkle	05-Jun-05	10	Jones, Dilwyn P. and McCann, M.J	Wrinkling of Webs on Rollers and Drums	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC	Self					
5574		roller;nip_impression;electronic;crown;maintenance	01-Feb-97	6	Jones, Elisabeth H and Moore, Robert H.	On the Use and Care of Supercalender Rolls	Tappi J., vol 80, no 2, pp 49-54	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5386&DID=521701	Synthetic roll covers are gaining popularity in supercalender positions because they have mark resistance superior to that of filled rolls and thereby have the potential to offer longer regrind	magazine	TAPPI	Stowe Woodward	UseCareSupercalender	RollerScan	doc and pdf	18-Dec-09	
5679		tension_control;measurement;standard;design	01-Nov-89	6	Jones, John P	Determining Tension Values	Converting Magazine. Pp 64-72, Nov 1989	5			magazine	Converting Magazine	Montalvo	DeterminingTensionValues	TensionScan	doc and pdf	24-Dec-09	
941		dust	02-Apr-91		Jones, M.	Down with Dust	Paper, Apr 2 1991				magazine							
942		property;paper;friction	01-Jan-67		Jones, N. and Peel, J.D.	Fricitonal properties of paper and their importance in supercalendering	Paper Technology, vol 8, no 1, pp 43, 1967.				magazine	Paper Technology						
943		unwind;electric;load cell;tension;control	01-Sep-79		Jones, P.	Unwind System Creates Tension Accurately	Intern Pbd Ind 22 no 9: 68 70											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5969		slitter;blade;life;wear;sharp	01-Jun-10	1	Jones, Sam	Prolong Blade Life	Paper, Film & Foil Converter, vol 84, no 6, pp 32, June 2010	4		Very thin surface coatings can be applied to nearly any knife or blade. Almost 20% of slitting customers choose to have an after-market coating applied to their blades.	magazine	Paper Film Foil Converter	American Cutting Edge					
5936			19-Apr-10		Jonson, Carl and Jones, Mark	Environmental and Economic Factors in Stretch Film Winding	TAPPI PLACE Conf, Albaquerque, Apr 20-22, 2010	2			conference	TAPPI	Gloucester Engineering					
2884		winder;schedule;trim;optimization	01-Oct-01	4	Jordan, Jay	Optimizing Trim Plans	Pulp & Paper, vol 75, no 10, pp 53-, October 2001.				magazine	Pulp and Paper						
14108	o	wind;WOT;measure;paper;board	07-Jun-15		Jorkama, M. and Palo, P.	Containerboard and Printing Paper Wound-on-Strain Measurements on a Pilot Winder	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	Valmet					
944	o	winding	01-Jun-97		Jorkama, Marko I and von Hertzen, R.	Two-Drum Winder Run Simulation Model	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC	Metso					
2575	o	wind;model;nip;contact	06-Jun-99	12	Jorkama, Marko I and von Hertzen, R.	Contact Mechanical Approach to the Winding Nip	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC	Metso					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5828		wind;stress;model;nip	01-Aug-02	5	Jorkama, Marko I and von Hertzen, R.	The Mechanism of Nip-Induced Tension in Winding	J. Pulp Paper Science, vol 28, no 8, pp 280-284, August 2002	3			magazine	JPPS	Metso	MechanismNipInduced	WindModelScan	doc and pdf	28-Nov-09	
3080	o	winder;vibration	01-Jun-03	8	Jorkama, Marko I and von Hertzen, R.	Wound Roll Generated Unstable Vibration	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC	Metso					
3313	o	two-drum;winder;vibration	05-Jun-05	10	Jorkama, Marko I and von Hertzen, R.	Wound Roll Generated Unstable Vibration on a Two-Drum Winder	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC	Metso					
3109		winder;vibration;thesis	01-Jan-96	100	Jorkama, Marko I.	On the winder Vibration Analysis	Licentiate's thesis, Helsinki Univ of Technology, 1996						Metso					
946		winder;vibration	18-Sep-96		Jorkama, Marko I.	Aspects of Analytical Winding Dynamics	submitted for publication in tappi journal						Metso					
5689		wind;vibration;frame;drum;fem;design	01-Jan-98	6	Jorkama, Marko I.	The role of analytical winding dynamics in winder design	Tappi J., vol 81, no 1, pp 202-207, January 1988	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4760&DID=519089	Excitation of fixed rotating members (drums, guide rolls, rider rolls) can be eliminated through better balancing and greater manufacturing accuracy. However, the wound paper rolls remain a variable and important source	magazine	TAPPI	Metso	WindVibrationDesignJorkama	VibrationScan	doc and pdf	03-Oct-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2721	o	book;wind;nip;contact;tension;model	01-Jan-01	96	Jorkama, Marko I.	Contact Mechanical Model for Winding Nip	Doctoral Thesis, Helsinki University of Technology, 2001.	10			Thesis		Metso	WindingNip Jorkama	BookScan	doc and pdf		
2820	o	wind;model;nip	11-Jun-01	10	Jorkama, Marko I.	Development of Web Tension in a Winding Nip	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC	Metso					
6049	o	winder;vibration	13-Jun-11	5	Jorkama, Marko I.	Winder Vibration: Causes , Defects and Remedies	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15	3			conference	WHRC	Metso					
5901		wind;model;nip;WIT	01-Jan-98	6	Jorkama, Marko I. and von Hertzen, R	Mechanism of nip-induced tension in winding	Journal of Pulp and Paper Science, August 2002, Vol. 28(8)	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4564&DID=510075	nip-induced tension (NIT) in winding is of utmost interest for manufacturers of winding apparatus. A method for calculating the wound-in tension under given winding conditions	magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
948		yankee;dryer;roller;corrosion;joint	01-Nov-95	5	Jostad, Ray E.	Yankee Dryer Crevice Corrosion Evaluations	Tappi J., vol 78, no 11, pp 73-77, November 1995	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4849&DID=518391	Yankee dryer was found to have crevice corrosion at the clamp fit of the head and shell flanges. The severity of this corrosion caused high stresses due to corrosion jacking forces	magazine	TAPPI						
949	o	yankee;dryer;roller;stress;safety	26-May-96	10	Jostad, Ray E.	Yankee Dryer Care and Safety	TAPPI Tissue Runnability Shortcourse, Perdido Beach, AL, May 21-23, 1996				shortcourse	TAPPI						
950	o	roll;wrapping	21-Sep-97	6	Joutsjoki, Jukka and Makinen, Jukka	Conserving Rolls and the Environment - Options for More Environmentally-Friendly Roll Packaging	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 169-174, September 21-24, 1997	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5326&DID=511816	This paper focuses on the options for more environmentally-friendly roll packaging methods. Current approaches to the recycling of wrapping materials	conference	TAPPI	Valmet (Metso)					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
951	o	roll;wrapping	04-Oct-98	4	Joutsjoki, Jukka and Makinen, Jukka	The Art of Wrapping Rolls	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 177-180, October 4-8, 1998	3	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=5255&DID=509152	This paper will discuss a new wrapping method using narrower wrapper width and an overlapping principle. Using a “cassette” wrapper feed of one to three wrapper stock rolls and the heat sealing method	conference	TAPPI	Valmet (Metso)					
952		wind	01-Oct-91		Juhe, H.H.	Jumbo Rolls	Das Papier, Oct 1991				magazine							
3422	o	extrusion;die	18-Sep-06		Juliano, Sam	Advances in Extrusion Coating Die System Technology	TAPPI PLACE Conf, Cincinnati, September 17-21, 2006	3	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=9355&DID=552223	needs, such as: convenient coating width adjustment, reduced overcoat requirement, and rapid achievement of coat weight precision for a wide variety of coating materials	conference	TAPPI	EDI					
953	o	core;automation	06-Oct-91	4	Kaapa, O. and Boos, L. and Young, A.	A Study of a Fully Automated Core Handling Systems	TAPPI Finishing and Converting Conf. Proc., Houston, pp 37-40, Oct 6-10 1991				conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2597	o	wind;model	06-Jun-99	12	Kabore, P. and Wan, H. and Jaafar, H. and Hamad, W.	A Dynamic Modelfor Monitoring and Control of a winding process	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC						
954		coat;blade	01-May-78		Kahila, S.J. and Eklund, D.E.	Factors influencing the coat weight in blade coating with bevelled blades, theory and practice.	TAPPI Coating Conf. Proc., May 1-3 1978					TAPPI						
955		calender	01-Aug-91		Kai, M. and Jinguji, T.	Recent Technical View of Supercalender	Japan Tappi J., Aug 1991				magazine							
956		wind;duplex	01-Sep-89		Kaipf, W.	Duo-Roller II Practical Operating Experience	Papier, Sep 1989				magazine							
957		wind;duplex	01-May-90		Kaipf, W.	Duo Roller II - Single Drum Winding Based on the Two-Drum Principle	EUCEPA Conf. Proc., Stockholm, May 1990				conference							
2811		tension;profile;measure	01-Jun-97		Kaljunen, T. and Parola, M and Linna, H.	CD Profile Measurements and Paper Runnability	XIV IMEKO World Congress, CD Symposium 97, vol XB, Tampere, Finaland, June 4-5, 1997											
3280		guide;edge_sensor	01-Apr-05	3	Kalnajs, Andrew	Detecting the Edge	Paper, Film & Foil Converter, vol 79, no 4, pp 66-69, April 2005	2	http://pffc-online.com/mag/detecting_edge_0405/	Most web guides use optical or ultrasonic through-beam edge detectors to determine the lateral position of the web.	magazine	Paper Film Foil Converter	Accu-Web					
958					Kamada, Hiroshi	Mechanical Properties of Paper	Material, vol 33, no 366, pp 118-122, [Japanese]											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
959					Kamada, Hiroshi, Matsunaga, Kazuo and Kato, Hiroshi	Relationship Between Springback and Stacking Characteristics of	Material, vol 34, no 379, pp 98-102, [Japanese]											
960	o	lateral;guide;steel	18-Jun-95	5	Kamiyama, T. and Uchica, H. and Marumoto, S and Yoneda, H. and Suzuki, N.	Electromagnetic Lateral Control System of Floating Strip	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC						
961		core;mandrel	04-Oct-94	20	Kampiziones, George	Precision Mandrels	AIMCAL 1994 Fall Tech. Conf. Proc., Atlanta, pp 95-104, Oct 4-5, 1994					AIMCAL						
3702	o	wind, peel	07-Jun-09	16	Kanda, T and Akemine, S. and Hashimoto, H	Prevention of Wound Roll Defect of Coated Web	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC						
3732			01-Jan-06		Kandadai, B.K.	The Development of Wound-on-Tension in Webs Wound into Rolls	WHRC Ph.D. Thesis, Oklahoma State University, 2006				CourseNotes	WHRC	WHRC					
3492	o	winding;model	10-Jun-07	8	Kandadai, B.K. and Good, J. Keith	Modeling Wound Rolls Using Explicity FE Methods	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC	WHRC					
3701	o	wind;nip;model	07-Jun-09	15	Kandadai, B.K. and Good, J. Keith	Measurement of Nip Induced Tension and Contact Stresses	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3700	o	wind;nip;model	07-Jun-09	15	Kandadai, B.K. and Good, J. Keith	Finite Element Analysis of Winding Nip Mechanics	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC	WHRC					
6019	o	wind;model	01-Jan-11	10	Kandadai, B.K. and Good, J. Keith	Winding Virtual Rolls	TAPPI Journal submission	4			paper	TAPPI	WHRC	WindVirtual RollGood	WindModel Scan	doc	01-Feb-11	
9981		wind;nip;model	01-Jan-09	7	Kandadai, B.K. and Good, J. Keith and Markum, Ronald	A New Method for Measurement of Wound-In-Tension in Webs Wound into Rolls	J of Pulp and Paper Science, vol 35, no 1, pp 17-23, 2009				journal		WHRC					
9986		print;register	01-Jan-10		Kang, HK and Lee, CW and Shin, KH	Compensation of machine directional register in a multi-layer roll-to-roll printed electronics	Int'l Conf on Control Automation and Systems (ICCAS), 010				conference							
9790		coat;gravure	10-Jun-12		Kapur, Nikil	Recent Developments in Gravure Coating	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Univ of Leeds					
962	o	roll;strap	24-Oct-93	14	Karass, L.	Damage Prevention Using Nonmetallic Polyester Cord Strapping	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 71-84, Oct 24-27 1993	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5578&DID=523512	approved by the Association of American Railroads, provides paper shippers and their clients with a safe non-metallic substitute to steel strapping. Enhanced security and reduced paper damage	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3347	o	electronic_lineshaft;gearless_presses	26-Sep-05		Karchinski, Mick and Jacques, Thomas (Paper Converting Machine)	Improving Production Efficiency of Flexible Film Printing Lines by the Print Control and Changeover Benefits of Gearless C.I. Presses	TAPPI PLACE Conf, Las Vegas, September 26, 2005	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5026&DID=526878	improving production efficiency of flexible film printing Lines by the print control and quick changeover benefits of gearless central impression (or C.I.) drum flexopresses	conference	TAPPI						
963		air;float;guide;computer;model	01-May-90		Kardamilas, C.E.	Stochastic Modeling and Control of Lateral Web Dynamics	OK. State Univ., WHRC, Ph.D. Thesis				thesis	WHRC	WHRC					
964		air;float;guide;computer;model	23-May-90		Kardamilas, C.E. and Young, Gary E.	Stochastic Modeling and Control of Lateral Web Dynamics	American Control Conference Proc., San Diego, May 23-25 1990						WHRC					
9983		tension;print	01-Jan-10		Kariniemi, M and Parola, M and Kulachenko, A and Sorvari, J and vonHertzen, L	Advances on Printing and Media Technology	37ths International Research Conf, 2010				conference							
965		defect;quality_control	01-Apr-89		Karl, W.	Taking Control of Product Defects	Pulp & Paper, vol 63, no 4, Apr 89				magazine	Pulp and Paper						
10013		wind;air_shaft;carbon_fiber;critical_speed	01-Dec-13	3	Karmaker, Ajit and Pretto, John	Carbon fibers increase critical speed of air shafts	Converting Quarterly, qtr 4, 2013	4			magazine	AIMCAL	Goldenrod					
966	c	wind;friction;nids;nip;defect;crepe	01-Jan-96	9	Karrila, Seppo, Lehisalo, Tommi, and Paulapuro, Hannu	The Coefficients of Friction for paper and their significance for winding	Inv Tech Papel num 128 (1996)											
967		roll structure;duplex winder	01-Apr-77	4	Karttunen, Martti and Ehrnrooth, Hans	A New Single-Drum Winding Concept for Light-Weight	Pulp & Paper, vol 51, no 4, pp 154-157, Apr 1977				magazine	Pulp and Paper						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
14118	o	traction;air_entrai;roller;groove	07-Jun-15		Kasikci, T and Muftu, S	Thin Tape Traction over a Goove Roller	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	research					
968		web;property;control	01-Feb-91		Kastanakis, G. and Lizr, A.	Interaction Between the MD and CD Control Processes in Papermaking and Plastics Machines	Tappi J., vol 74, no 2, Feb 1991				magazine	TAPPI						
969	o	wind;tension;control;model	19-May-91	12	Kataoka, Y.	Concerning Wound Mill Roll Quality and Take-Up Tension Control	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 234-245, May19-22 1991					WHRC						
2926	o	calender;cd;control;model	01-Dec-02	10	Kawka, Dariusz and Crotogino, Reinhold H. and Douglas, W.J. Murray	Calendering Model for CD Control	TAPPI JOURNAL, December 2002, Vol. 1(10)	3	http://www.tappi.org/s_tappi/sec publications.asp?CID=4691&DID=513302	calendering equation used to estimate, at a specific CD position, in-nip strain from permanent strain. Use of the model shows that paper response to a control action is highly sensitive to local nip load and to temperature and moisture	conference	TAPPI						
970		reel;automation	01-Nov-90		Kayser, F. and Isfort, W.	Retrofitting Automatic Reel Changers	Wochenbl. Papierfabr., Nov 1990											
5752		wind;core;quality;strength	01-Sep-93	2	Kearns, robert W and Munroe, James H	New Dimensions to Consider in Film-Core Specifications	Paper Film Foil Converter, pp 70-21, Sep 1993	3			magazine	Paper Film Foil Converter	Sonoco	FilmCoreSonoco	WindGeneralScan	doc and pdf	06-Nov-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
972	o	core;film	01-Sep-95	2	Kearns, Robert W. and Munroe, James H.	Consider Film Cores when Analyzing Costs	Paper, Film & Foil Converter, vol 69, no 8, pp 54-55, August 1995				magazine	Paper Film Foil Converter	Sonoco					
973	o	wind;model;caliper;profile	19-May-91	14	Kedl, Douglas M.	Using a Two Dimensional Winding Model to Predict Wound Roll Stresses that Occur Due to Circumferential Steps in Core Diameter or to Cross-Wel Caliper Variation	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 99-112, May19-22 1991					WHRC	3M					
974	o	quality;vision	24-Oct-93	4	Keefer, A.M. Jr.	Machine Vision: Putting the Quality into the Product	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 351-354, Oct 24-27 1993				conference	TAPPI						
975		dry;book	01-Jan-72		Keey, R.B.	Drying: Principles and Practice	Pergamon, NY, 1972	10			Book							
2651	o	calender;moisture	03-Oct-99	12	Keikkenen, Antti et al	Moisture Gradient Calendering for Multinip Applications	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 141-152, October 3-7, 1999	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5187&DID=508486	Moisture gradient calendering has been more difficult to implement than temperature gradient calendering. Now, the latest developments in water spray moisturizers is changing the situation	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5924		temperature;measure;extruder	01-Mar-11	2	Keller, Ricky L	Measuring Melt Temperatures	Paper, Film & Foil Converter, vol 84, no 2, pp 52-53, Mar 2010	3	http://pffc-online.com/controls/0301-measuring-melt-temps/	First, we need to understand the proper method to measure melt temperature. There are three types of melt temperature probes (see Figure 1):	magazine	Paper Film Foil Converter	Davis-Standard					
976		calender;nip;measure	01-Jan-91		Keller, Sam F.	Measurement of the Pressure-Time Profile in a Rolling Calender Nip	Canadian Pulp and Paper Assoc, 77th Annual Mtg.				magazine	Canadian Pulp & Paper Ind						
977		calender;nip;heat_transfer;measure	01-Jan-94	5	Keller, Sam F.	Heat Transfer in a Calender Nip	J. of Pulp and Paper Science, vol 20, no 1, pp J33-J37, January 1994				magazine	J Pulp and Paper Science						
978		calender;soft;news	01-Jan-91		Keller, Sam F. and Waech, T.G.	The Effects of High Temperature Soft Nip Calendering on Newsprint Properties	Canadian Pulp and Paper Assoc, 77th Annual Mtg.				magazine	Canadian Pulp & Paper Ind						
979			01-Jan-64		Kellogg, Robert M. et al	Influence of Fiber Strength on Sheet Properties of Hardwood Pullp	TAPPI Technical Section, vol 47, pp 361-367, 1964					TAPPI						
980		print;book	01-Jan-74	6	Kelly, E. and Crouse, D. B. and Supansic, R. R.	Web Offset Press Operation, 1st ed	Graphic Arts Technical Foundation, Inc., Pittsburg, Jan 1974	10			Book							
981		convey	01-May-91		Kelsey, R.J.	Basic Principles of Conveying	Food Drug Packaging, May 1991											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
983	c	nip;stress;measure	01-May-91		Kennedy, William B.	Nip Impressions	Tappi J., vol 74, no 5, pp 277-280, May 1991	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4873&DID=519551	a press and is commonly found in the paper, printing, and textile industries, to name a few. An external loading system is used to regulate the amount of force applied to the press.	magazine	TAPPI	Stowe Woodward					
984		nip;measure	01-Jul-92		Kennedy, William B.	Using Nip Impressions to get Uniform Water Removal	Paper Technolgy, July 1992				magazine	Paper Technology	Stowe Woodward					
5575		roller;nip_impression;electronic;crown;maintenance	01-Mar-98	4	Kennedy, William B. and Moore, R.H.	Press Nip Maintenance using Electronic Nip Impressions	Paper Age, March 1998	3			magazine	Paper Age	Stowe Woodward	PressNipMaintenance	RollerScan	doc and pdf	18-Dec-09	
2707	o	nip;electronic;measure	01-May-00	1	Kennedy, William B. and Moore, R.H.	Electric Nip Impressions - a new diagnostics tool	Tappi J, vol 83, no 5, pp 81, May 2000	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4772&DID=518989	electronic nip impression system that allows real-time examination of the nip uniformity. Corrective actions can be made and confirmed on the spot.	magazine	TAPPI	Stowe Woodward					
985		calender;nip;speed;load	01-Jan-76	4	Kerekes, R .J.	Speed and Loading Effects in a Calender Nip	Trans Tech Sect CPPA, 2(3):88-91, 1976											
986		winding;pressure;distribution	01-Jan-76	6	Kerekes, R .J.	Pressure Distribution on a Thin Viscoelastic Strip Rolling Between	Transactions de la SCGM, vol 4, no 1, pp 27-32, 1976-1977											
987		nip;width;calculation	01-Sep-79		Kerekes, R .J.		CPPA Section 5, No 3, PP TR66-67, September 1979				conference	CPPA						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
988		papermaking;theoretical;BC;simulation;application;evaporate;dra	29-Apr-88		Kerttula, Reima	How to Increase and Optimize the Capacity of the Paper Machine	CPPA Annual Mtg.				conference	CPPA						
3101		air_entrain;wind	01-Jan-97	7	Keshavan, M.B> and Wickert, J.A.	Air Entrainment During Steady State Web Winding	Transactions ASME, J of Applied Mechanics, vol 64, pp 916-922, 1997											
9817		adhesive;test	10-Jun-12		Keshavarz, Meysam	Zirconia Nanocrystalline Adhesion Evaluation by Micro-Indentation	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	UTM					
989		electric;drive;control	01-May-76		Kessler, G.	Electrical Drive Systems for the Paper Rubber Plastics Industries	Proceedings 2, 3rd International IFAC Conference on Instrumentation (3rd) Proc.											
990		winder;control;papermaking;film;textile;machine;print;electric	01-Aug-84	9	Kessler, G. and Brandenburg, G. and Schlosser, W. and Wolfermann, W.	Structure and Control of Systems with Continuous Moving Elastic	Regelungstechnik RT, vol 32, no 8, pp 251-266, Aug 1984											
991		tension;control;longitudinal;dynamic	01-Oct-77	2	Ketterer, Al	Web Control--Balancing Guidance and Tension.	Formed Fabrics Industry, vol 8, no 10, pp 6-7, Oct 1977											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
992		drive;coater	01-Apr-90		Kheboian, G.I.	Drive Systems for Off-Machine Coaters	Tappi J., vol 73, no 4, Apr 1990	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4872&DID=519437	Engineers may fail to handle properly such things as selecting and maintaining an effective master or lead section, designing effective tension control systems, and selecting appropriate torque, speed, and horsepower for each drive.	magazine	TAPPI	Self					
3719	o	curl;model	07-Jun-09	14	Kidane, Sam	Laminate Theory Based 2D Curl Model	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC						
993	o	team	24-Oct-93	15	Kiedrich, K.K.	The Power of Teams: Improving Quality in the Paper Industry by Involving Peopl	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 25-38, Oct 24-27 1993				conference	TAPPI						
994		coating;polymer;tape;substrate	14-Sep-84		Kieser, J. et al	On the Vacuum Design of Vacuum Web Coaters	Thin Solid Films, vol119, no 2, p 217-222, Sep 14 1984											
995		tension;profile;measure	01-Jan-90	9	Kilmister, G. T. F. and Maline, U.	The Measurement of Cross Machine Tension Distribution in a Paper Web During Manufacture	Proc. of World Pulp and Paper Week, EUCEPA, pp 141-149, 1990											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9810		vacuum_dep	10-Jun-12		Kim, Do-Geun	Roll-to-Roll Barrier Coatings on PET Film by Using a Closed Drift Magnetron PECVD	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Korea Institute of Materials Science					
996		tissue;towel;softness;measure;model	01-Oct-94	6	Kim, Johng J., and Shalev, Itzhak, and Barker, Roger L.	Softness Properties of Paper Towels	Tappi J., vol 77, no 10, pp 83-89, October 1994	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4883&DID=520364	The Kawabata evaluation system (KES) is widely used in the fabric industry, and the research presented here shows that the technique can be adapted to measure the softness of paper towels	magazine	TAPPI						
997		paper;property;stress;strain;elongation;analytical	01-Jan-57		Kimura, Minoru and Shimizu, Hiroshi	Stress and Strain Analysis of a Rectangular Specimen in Elongation												
3231	o	lamination;coating;width	29-Aug-04		King, Carson and Adams, Keith H.	An Introduction to Wide-Web Laminations and Coatings	TAPPI PLACE Conf, Indianapolis, August 29, 2004	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5053&DID=526059	Hot melt adhesives are replacing many cold glue and mechanical-fastening methods due to improved dispensing technologies and hot melt material performance	conference	TAPPI	Nordson					
999		tension;model;print	01-Dec-69	5	King, D. L.	The Mathematical Model of a Newspaper Press	Newspaper Techniques, pp 3-7, December 1969											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
998		tension;print	01-Feb-73		King, D. L.	Tension Behavior of Web-Fed Newspaper Presses	Professional Printer, vol 17, no 2, Feb 1973											
1000	o	roller;air_entrain	06-Jun-93	16	King, Shermain L. and Func, B. A and Chambers. Frank W.	Air Films Between a Moving Tensioned Web and a Stationary Support Cylinder	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC						
1001	o	air;float;bar;roller	01-Oct-92	63	King, Shermaine L.	An Investigation of Air Films Beneath a Tensioned Web Moving over Non-Rotating Smooth and Textured Cylinders	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						
1002	o	ream;wrapping;cartoning	04-Oct-98	10	King, Steven and Schubert, Michael and Clark, Ralph	Concepts and Features of Flexible Folio Ream Wrapping and Cartoning in North America	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 181-190, October 4-8, 1998	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5255&DID=509153	The Fine Paper industry has become evermore customer driven. Additionally, the market is increasingly global in nature	conference	TAPPI						
1003		wind	01-Oct-89		Kirchner, R.F.	Product, Quality Needs Dictate Winding Techniques	Paper, Film & Foil Converter, vol 63, no 10, Oct 1989				magazine	Paper Film Foil Converter						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2545		yankee;dryer;roller;grind	01-Feb-99	1	Kirichkow, Jack	Dryer Grinding in Mills Producing Packaging and Graphics Paper	Tappi J., vol 82, no 2, pp 64-66, February 1999	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4748&DID=518217	Sheet breaks, product defects, and insidious thermal inefficiency are symptoms of damaged, fouled, unevenly worn, out-of round or misaligned dryer cylinders. Periodic dryer grinding	magazine	TAPPI						
1004	o	quality	24-Oct-93	2	Kirk. P.J.	World Class Quality	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 159-160, Oct 24-27 1993				conference	TAPPI						
1005		coextruded film;film thickness;friction;layers;poyethylene;slip	01-Dec-88	4	Kitchel, Frank T.	Differential Coefficient of Friction in Coextruded Blown Films	Tappi J., vol 71, no 12, pp 156-159, Dec 1988				magazine	TAPPI						
5942	o	drive;startup;comissioning;safety	18-May-10	1	Klassen, Clarence	Commissioning a Multi-Tension Zone Drive System for Web Handling	Applied Web Handling Conf, AIMCAL AWEB, Rochester, May 17-20	4	http://www.aimcal.org/association/aweb10/abstracts.asp?RECORD_KEY=filename&filename=klassen	Commissioning and tuning of the drive depends heavily on the drive tech, machine builder(s), customer management and customer operators	conference	AIMCAL	self	AWEB/AWEB10	AWEB2010	pdf	04-Jun-10	
9888		drive;control;upgrade	01-Apr-12	6	Klassen, Clarence	How to upgrade your web-handling drive systems	Converting Quarterly, qtr 2, 2012	5			magazine	AIMCAL	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9858		drive;response;tune	14-Jun-12		Klassen, Clarence	Drive Response Requirements for Web Handling	AIMCAL Web Handling Conference, Prague, Jun 14-15, 2012	5		tuning requirements for various web handling applications. Consideration will be given to acceleration, good roll starts, and turret winder cutovers	conference	AIMCAL	self				27-Jul-12	
9857		drive;upgrade	14-Jun-12		Klassen, Clarence	Additions to your Drive Systems	AIMCAL Web Handling Conference, Prague, Jun 14-15, 2012	5		options available for adding new drives to your existing system describes the challenges with each option. These issues include cost, downtime, combining analog and digital technology	conference	AIMCAL	self				27-Jul-12	
9869		drive;response;tune	22-Oct-12		Klassen, Clarence	Drive Response Requirements for Web Handling	AIMCAL Web Handling Conference, Myrtle Beach, Oct 22-23, 2012	5		tuning requirements for various web handling applications. Consideration will be given to acceleration, good roll starts, and turret winder cutovers	conference	AIMCAL	self				27-Jul-12	

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9867		drive;upgrade	22-Oct-12		Klassen, Clarence	Additions to your Drive Systems	AIMCAL Web Handling Conference, Myrtle Beach, Oct 22-23, 2012	5		options available for adding new drives to your existing system describes the challenges with each option. These issues include cost, downtime, combining analog and digital technology	conference	AIMCAL	self	DriveAdditionsKlassen	TensionScan	doc	27-Jul-12	
10048		drive;safety;code;stop	08-Jun-14		Klassen, Clarence	Safety Drives for Web Handling	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014	5			conference	AIMCAL	self					
10051		drive;accumulator	08-Jun-14		Klassen, Clarence	Over Speed in Accumulators	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014	4			conference	AIMCAL	self					
10084		roller;drive;traction;tension;drag	20-Oct-14		Klassen, Clarence	Driving a Spreader Roller	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014	4			conference	AIMCAL	self					
10086		drive;plc;safety;standard	20-Oct-14		Klassen, Clarence	Safety Drives for Web Handling	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014	5			conference	AIMCAL	self					
14159		wind;core;defect;tension	30-May-16	1	Klassen, Clarence	Good Winding Starts – The First 5 Seconds – Part 2 - Drives	AIMCAL Europe Web Conf, Dresden, May 30 - June 2, 2016	4			conference	AIMCAL	self					
14138		wind;core;defect;tension	09-Sep-16	1	Klassen, Clarence	Good Winding Starts – The First 5 Seconds – Part 2 - Drives	AIMCAL Fall US Web Conf, Memphis, Sept 9-12, 2016	4			conference	AIMCAL	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9954	o	drive;motor;tuning;regulators	02-Jun-13	20	Klassen, Clarence P	Web tension regulators - control heuristics	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	4			conference	WHRC	self					
10077		web-handling;machine;safety;liability;hazard;risk	01-Sep-14	5	Klassen, Clarence P	Safety in Web Handling: Part 1 - Standards	Converting Quarterly, qtr 3 2014	5			magazine	AIMCAL	self					
9831		caliper;measure	10-Jun-12		Klayman, Michael	Recent Enhancements and Advantages of New In-Process Thickness Measurement Systems	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Sensory Analytics					
1006		film;stress;film;plant;film;sheet;film;tension;control	01-Feb-84	4	Klein, Herbert	Tension Control on Running Plastics Webs-Part II	Plastverabeiter, vol 35, no 2, pp 25-28, Feb 1984											
1007		wind;reel	01-Aug-89		Klein, Herbert	Reel Cutting and Winding Machines for Paper Finishing Part 4	Coating, Aug 1989											
1008		wind;reel	01-Sep-89		Klein, Herbert	Reel Cutting and Winding Machines for Paper Finishing Part 5	Coating, Sep 1989											
1009		coat;roll;wear	01-May-90		Klein, Herbert	The High Wear Resistant Treatment of Coating and Metering Rollers for Coating Web Forming Materials	Coating, May 1990											
1010		wind	01-Oct-90		Klein, Herbert	Roll Cutting and Reeling Machines for Paper Finishing	Coating, Oct 1990											
1011		splice	01-Jan-91		Klein, Herbert	The Short Splice and its Economic Importance for the Finishing Industry	Coating, Jan 1991											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1012		wind;reel;autc mation	01-Feb-92		Klein, Herbert	Automatic Reel Changing	Coating, Feb 1992											
3500	o	air_entrain	10-Jun-07	8	Kleinert, A and Welp, E. (Ruhr Univ)	Analytical Models for the Gap Throttle Effect at Foild Bearings and Web Rollers	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC						
1013		material;prope rty;paper;frictio n	01-Nov-72		Klementischitz, W. and Haner, A. and Dreier, F.	Studies dealing with the static coefficient of pup and paper	Das Papier, vol 26, no 11, pp 733, 1972.				magazine							
1014		tension;machi ne	01-Sep-89		Klemm, M.	The DFS 100 Tensioning Machine	Siebdruck, Sep 1989											
5526		tissue;crepe;y ankee;adhesio n;tension	01-Feb-92	5	Klerelid, Ingvar	New Possibilities in Creping Control on a Tissue Machine	Paper technology, pp 36-39, Feb 1992	4			magazine	Paper Technology	Valmet	CrepingCo ntrolTissue Machine	MiscScan	doc and pdf	24-Dec-09	
1016		spread;compu ter;model;conc ave_roller	01-Dec-88		Kliewer, G.A.	Development of a Model of Webs Encountering Concave Rollers	M.S. thesis, Web Handling Research Center at Oklahoma State Univ., Dec 1988				thesis	WHRC						
1017		control;slitter; machine;desig n;output;semic onductor;slitter ;fil	01-Apr-87	1	Klikunov, S.D.	Control System for S5P-201 Slitter Stations	Bumazh. Prom., no 4, pp 30-31, Apr 1987 [Russian]											
1018	o	calender;roll;s urface;wear	15-Oct-95	10	Knapp, J.K. and Lampman, R.D.	Characterization of Calender Roll Surface Features Using Interferometric Profiling	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 15-24, Oct 15-18, 1995	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5460&DID=521809	An optical, non-contact profiling technique based on interferometric analysis is used to generate three-dimensional surface profile measurements of two calender roll materials	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5477		tension;load_cell;profile;paper	01-Jun-01	12	Kniivila, J.	On-Line Tension Profile Optimization via Moisture Profile Controls on the Newsprint Papermaking Process	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000	4			conference	WHRC	Metso	OnlineTensionProfileKniivila	IWEB	doc and pdf	22-Nov-09	
3060	o	tension;control;model	01-Jun-03	8	Knittel, D.	Robust Control Design Using H-Infinity Methods in Large Scale Web Handling Systems	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC	Univ of Strasbourg					
3297	o	tension;control;model	05-Jun-05	10	Knittel, D. and Bourgin, P. and Boutaous	Control and Online Tension Reference Optimization in Winding Systems: Application to an Identified Three-Motors Simulator	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC	Univ of Strasbourg					
6101		tension;control;model	01-Oct-06		Knittel, D. and Verdines, M. and Henrio, D and Pagilla, P	Fixed-Orcher H Decentralized Control with Model Based Feedforward for Elastic Web Winding Systems	Proc of the IEEE Industry Applications Soc Conf, Tampa, Oct 2006				conference	WHRC						
9856		drive;master;model	14-Jun-12		Knittel, Dominique	Elastic Web Processing Lines: Optimal Master Roller Position	AIMCAL Web Handling Conference, Prague, Jun 14-15, 2012	3			conference	AIMCAL	Univ of Strasbourg				27-Jul-12	
10063		wrinkle;FEM;model	08-Jun-14		Knittel, Dominique	Web Dynamics Analysis Using Finite Element Simulations	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014	3			conference	AIMCAL	University of Strasbourg					
14162		wrinkle;model	30-May-16	1	Knittel, Dominique	Modeling and numberical simulation of wrinkling solutins for thermo-mechanical loading	AIMCAL Europe Web Conf, Dresden, May 30 - June 2, 2016	2			conference	AIMCAL	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
14164		wind;model	30-May-16	1	Knittel, Dominique	Web dynamics analysis using finite element simulations	AIMCAL Europe Web Conf, Dresden, May 30 - June 2, 2016	2			conference	AIMCAL	self					
9952	o	wind;model	02-Jun-13	9	Knittel, Dominique and Bencheikh, Issam and Boutaous, Mohamed and Bourgin, Patrick	Gauge Optimization of the reference tension and nip load in winding systems using wound internal stresses calculation	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	2			conference	WHRC	University of Strasbourg					
9968	o	tension;control;model	02-Jun-13	14	Knittel, Dominique and Frechard, Jonathan and Martz, Yannick	Control design for longitudinal web dynamics benefits and drawbacks of robust control approaches	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	2			conference	WHRC	University of Strasbourg					
3416		laser;die;slit;cut	01-Aug-06	2	Knotts, William	The Laser's Edge	Paper, Film & Foil Converter, vol 80, no 8, pp 62-63, Aug 2006	4	http://pffc-online.com/mag/paper_lasers_edge/	converters were impressed by the promise of the technology but decided to bide their time in acquiring tool-free digital-cutting systems	magazine	Paper Film Foil Converter	Spartanics					
1019			07-Jul-88		Knox, K.L. and Sweeney, T.L.	Fluid Effects Associated with Web Handling	Ind. Eng. Chem. Process Des. Develop., Vol. 10, no 2, 1971, pp 201-205, 1971											
2830	o	tension;drive;control;model	11-Jun-01	10	Koc, H. and Knittel, D. and de Mathelin, M. and Abba, G.	Modeling and Robust Control for Winding Systems	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2605	o	tension;accumulator;model	06-Jun-99	10	Koc, H. and Knittel, D. and de Mathelin, M. and Abba, G. and Gauthier, C.	Web Tension Control in an Industrial Accumulator	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC						
9834		roller;lean	22-Oct-12		Koch, Peter	Problem-solving Techniques for Use in a Lean Environment	AIMCAL Web Coating Conference, Myrtle Beach, Oct 22-24, 2012			Tools suitable for product quality/reliability issues may be unsuitable for process problems. This paper outlines the use of Design of Experiments (DOE) techniques suitable for practical application in design and production environments	conference	AIMCAL	ABBA Roller					
1020		book;convert;	01-Jan-90	386	Kocurek, Michael J. and Kouris, Michael	Coating, Converting and Specialty Processes	Tappi Press, 1990	10			Book	TAPPI						
9826		optical;defect_detect	10-Jun-12		Koenig, Dr Jochen and Shen, Dr	Innovative Automated Web and Sheet Inspection Systems - Vision Beyond Defect Detection	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9846		defect;detect	22-Oct-12		Koenig, Joshen	Beyond Defect Detection- Process Monitoring for Coated Materials with EasyMeasure	AIMCAL Web Coating Conference, Myrtle Beach, Oct 22-24, 2012			New innovations in LED lighting, CCD camera design, and signal processing permit measuring of optical properties using the same hardware as the defect detection system. The EasyMeasure gauging system is the first non-radioactive, non-scanning system	conference	AIMCAL	Schenk Vision					
1021	o	sheet	18-Oct-92	14	Koepke, F.A. and Seiler, G.S.	Design Consideration for a Successful Sheeter/Packaging Line Installation	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 155-168, Oct 18-21 1992				conference	TAPPI						
1022		automatic control;control; slitter;diagram; electric drive;electr	01-Feb-87	2	Kolesnikov, V.I. and Kornienko, V.D. and Karpovich, A.A. and Rogo, V.M.	Structural Diagrams of the Electric Drive of the S5-303 Slitter	Bumazh. Prom., no 2, pp18-19, Feb 1987 [Russian]											
1023		splice;tape	01-Oct-87	5	Koller, Paul	Mill Splices with Pressure Sensitive Tapes; Some Properties,	TAPPI Finishing and Converting Conf. Proc., 1987				conference	TAPPI						
1024	c	paper;property ;temperature; moisture;cree p;testing;book	01-Jan-83		Kolseth, P. and deRuvo, A.	Handbook of Physical and Mechanical Testing of Paper and Paperboard	Marcel Dekker Inc, New York, 1983	10			Book							

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
10102		thickness;profile;measurement	20-Oct-14		Komaragiri, Vivek	Advanced Method for Accurate Thickness Measurement of Ultra-thin Coatings on Films	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014	3			conference	AIMCAL	Sensory Analytics					
10061		gage;thickness;scanner	08-Jun-14		Komaragirl, Vivek	New Higher Speed Inline Coating Thickness Measurement Solutions for Coated Films and Foils	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014	3			conference	AIMCAL	Sensory Analytics					
9978		wound;roll;hardness;test;measure	01-Jun-03		Kompatscher, M	Testigof Reel Hardness with PAROtester2	PaperAsia, June 2003											
2722		wind;model	01-Jan-70		Komulainen, Pekka	A Simulation Model for Paper Winding and its Reliability (Finnish)	Master's thesis, Helsinki University of Technology, 1970				thesis		Wartsilla (Metso)					
5721		wind;density;measure	01-Jan-82	6	Komulainen, Pekka	Roll Quality Measurment and Control	TAPPI Finishing and Converting Conf, pp 87-92, 1982	2			conference	TAPPI	Wartsilla (Metso)	RollQuality Komulainen	WindDensityScan	doc and pdf	07-Oct-09	
1025		wind;roll_structure;quality;measure	01-Oct-82		Komulainen, Pekka	Improving runnability by roll quality measurement and control	EUCEPA Conf. Proc., Budapest, 1982				conference		Wartsilla (Metso)					
1028		automatic control;center wind;computer;measurement;process;varia	01-Aug-83	9	Komulainen, Pekka et al	Winding Quality - Computer Measurement and Control During Winding	ATIPCA Rev. 37, no 8, pp 434, 513-520, Oct1983 [Fr.; Engl. sum						Wartsilla (Metso)					
2660		unwinding;textile	01-Apr-99	15	Kong, Xiang Ming et al	Steady-State unwinding of yarn from cylindrical packages	Textile Research J., vol 69, no 4, pp 292-306, April 1999				magazine	Textile Research J						
3574	o	measurement;laser	06-May-08	1	Kordik, Mike	Using Laser Doppler Velocimetry to Increase Profits and Reduce Downtime	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	Beta LaserMike					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5858		adhesive;joint;stress;strength;board;carton;packaging	01-Dec-09	200	Korin, Christer	Mechanical Behavior of Adhesive Joints in Cartonboard for Packaging	Ph.D. Dissertation Thesis University of Karstad Sweden, December 2009	3			thesis	Karlstad University	Korsnas					
1029		calender;soft	01-May-91		Koriseva, J. et al	Soft Calender Nip: An Interesting Subject for Research and Measurement	Papier Puu, May 1991				magazine							
2650	o	roll;packaging;waste	03-Oct-99	6	Korjus, Jukka and Makinen, Jukka	Analysis of the Roll Package's Lifecycle	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 127-132, October 3-7, 1999	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5187&DID=508484	One popular choice of material is a liner based wrapping. It provides a comprehensive protection during the voyage from the shipping dock to the unwinding location.	conference	TAPPI	Valmet (Metso)					
1030		unwind;hydraulic;brake;tension	10-Apr-72	2	Kornicer, E. and Bray, A.	Hydraulic Pumps Successfully Replace Air Brakes on Unwinding Rolls	Paper Trade J., vol 156, no15, pp 41-43, Apr10 1972				magazine	Paper Trade J						
1031		strain;paper;web_break;measure	01-Apr-96	8	Korteoja, M.J. et al.	Local Strain Fields in Paper	Tappi J., vol 79, no 4, pp 217-223, April 1996	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4734&DID=519857	When a paper specimen is strained microscopic ruptures give rise to plastic deformations. These deformations can be made visible by silicone impregnation	magazine	TAPPI						
1032			01-Jan-74		Koster, M.P.	Vibration of Cam Mechanisms	MacMillan, London, 1974											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1033	o	air_entrainment	01-Jun-97		Kothari, S. and Satheesh, K. and Chambers, F.W.	Computations of Air Films and Pressures between Webs and Rollers for Steady and Unsteady Operating Conditions	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC						
1034		forecast;integration;operation;trend;roll	27-Jan-87		Kotiaho, P.	Future Trends in Roll Finishing	CPPA Annual Mtg Preprints 73A, pp 155-159, Jan 27-28 1987				conference	CPPA						
1035	o	bar_code	06-Oct-91	8	Kotok, A. and Howell, W.H.III	Bar Codes for Folio and Cut-Size Stock	TAPPI Finishing and Converting Conf. Proc., Houston, pp 9-16, Oct 6-10 1991	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5678&DID=516344	Graphic Communications Association developed a bar code specification for use on reams, cartons, pallets, and skids of folio and cut-size paper.	conference	TAPPI						
1036		zd, strength, delamination;test	01-Mar-95	9	Koubaa, Ahmed and Koran, Zoltan	Measure of the internal bond strength of paper/board	Tappi J., vol 78, no 3, pp 103-111, March 1995	3	http://www.tappi.org/s_tappi/sec publications.asp?CID=4847&DID=518586	Three methods are used to measure the internal bond strength of papers made from TMP, CTMP, and kraft pulps. These are the z-directional tensile test, the delamination test, and the Scott bond	magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6046	o	tension;strain; paper;dry	13-Jun-11	18	Kouko, J. and Kekko, P.	Multi-stage Tensile Straining during Drying of SC Paper	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15				conference	WHRC	VTT Technical Research Center, Metso					
9958	o	paper;moisture;temperature; formation	02-Jun-13	20	Kouko, Jarmo and Retulainena, Elias and Kekkob, Pasi	Influence of heating on tensile and relaxation behavior of wet paper	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	3			conference	WHRC	Metso					
1037					Kouris, Michael	Winder Drive Power Requirements	TAPPI Special report no 432					TAPPI						
3227	o	chill:roller;design	29-Aug-04		Kozica, Rimas V.	Chill Rolls - Next Generation The Rotary Thermosiphon Chill Roller	TAPPI PLACE Conf, Indianapolis, August 29, 2004				conference	TAPPI	Mirror					
9822		coat	10-Jun-12		Krantz, Johannes	Aspects to Develop a Roll-to-Roll Coater	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	SCHMID Vacuum Technology					
3440		coating;meyer_rod	23-Oct-06	1	Krasucki, Doug	After over 100 years ofuse, Meyer Rods are still popular today	AIMCAL Fall Tech Conf Proc, Reno, October 22-25, 2006					AIMCAL	RD Specialties					
1038		calender;news	01-Jul-91		Krauthauf, E.	Experiences with Nipcomat Calenders in the Production of Newsprint	Wochenbl. Papierfabr., vol 119, no 7											
1039	o	tension;control	01-Jun-97		Krebs, S.	Multiple-Tension Control using a new Approach in Signal-Processing	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1040		wind;density;dry;air;permeability	01-Sep-89		Kretschmer, A.	Influence of the Winding Density and of the Substrates on the Air-Passage Drying of Package Lots	Melli and Textileberichte, Sep 1989											
1041	o	yankee;dryer;roller;stress;safety	26-May-96	10	Kriedeman, John A.	Yankee Dryer Development Through Stress Analysis	TAPPI Tissue Runnability Shortcourse, Perdido Beach, AL, May 21-23, 1996				shortcourse	TAPPI	Beloit					
1042	o	yankee;dryer;roller;stress;safety	01-Jul-98	12	Kriedeman, John A.	Yankee Dryer Development Through Stress Analysis	Tappi J., vol 81, no 7, pp 101-112, July 1998	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4766&DID=518830	traces the development of the Yankee dryer from a primitive drying cylinder to a modern pressure vessel of extra-ordinary productivity	magazine	TAPPI	Beloit					
1043		roll;length;tach	01-Jan-79	3	Kristensen, G.L. et al	Length Measurement at the Winder	Appita, vol 32, no 4, pp 305-307				magazine	APPITA						
1044	o	calender;roller	07-Oct-90	6	Kruska, D. and Stotz, G.	Operating Experience with the Nipcofloat Supercalender	TAPPI Finishing and Converting Conf. Proc., Lake Buena Vista FL, pp 189-194, Oct 7-10 1990	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5730&DID=515333	inherent operating difficulties which until a short while ago were accepted by mill operators as unavoidable. We resigned ourselves to non-uniform temperature and line force profiles, with heavy rolls i.e. high loading in the bottom nip	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1045		paper;property;creep;measure	01-Jan-65	16	Kubat, J. and Linderbergson, S.	Mechanical Relaxation in Paper Studied by Means of the Torsional Pendulum	Svensk Papperstid., vol 68, pp 743-756, 1965				magazine							
1046		tension;dancer	01-Apr-91		Kubomura, K. et al.	Filament Wound CFRP Long Sensor Dancer Rollers	SAMPE Symposium, Apr 1991											
1047			04-Oct-94	22	Kudronowicz, Jeff	Update on VOC Control Technology	AIMCAL 1994 Fall Tech. Conf. Proc., Atlanta, pp 245-268, Oct 4-5, 1994					AIMCAL						
1048	c	calender;roller;maintenance	24-Jul-67	9	Kuehn, Howard E.	Calendering - The Papermaker's Last Chance	Pulp & Paper, Jul 24 1967				magazine	Pulp and Paper						
1049	c	calender;roller;crown;deflection	31-Jul-67	7	Kuehn, Howard E.	Calendering - Controlling Roll Deflection	Pulp & Paper, Jul 31 1967				magazine	Pulp and Paper						
1050		wind;jumbo;core	01-Oct-91		Kunert, M. and Gessner, W.	Requirements of Reel Cores for Very Large Rolls	Papier, Oct 1991				magazine							
1051		film;caliper;sensor;control	28-Aug-94		Kunze, B. and Schroeter, B. and Ott, D.	Improving Quality by Automatic Thickness Control systems in Film Extrusion Lines	TAPPI Polymers, Laminations and Coatings Conf. Proc., August 28 - September 1, 1994				conference	TAPPI						
6100		tension;control;dancer;model	01-Jan-84		Kuribayashi, K. and Nakajima, K.	An Active Dancer Roller System for Tension Control of Wire and Sheet	IFAC 9th World Congress, Budapest, 1984				conference							
1052	o	web;draw;dynamics	18-Jun-95	16	Kurki, M. and Juppi, K. and Ryymin, R. and Taskinen, P. and Pakarinen, P.	On the Web Tension Dynamics in an Open Draw	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC						
1053	o		01-Jun-97		Kurki, M. and Vestolal, J. and Martikainen, P.	The Effect of Web Rheology and Peeling on Web Transfer in Open Draw	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3149	o	temperature;measurement;coater	26-Oct-03		Kurman, Eric	Real-Time Web Temperature Measurements and Heat Balance in a Roll Coater	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003					AIMCAL						
1054		calender;soft	01-Jan-91		Kurtz, R. and Hess, H.	Soft Nip Calendering	Japan J. Paper Technology, Jan 1991				magazine							
1055		infrared;moisture;measure;algorithm	01-Jul-95	6	Kuusela, R. and Jaaskelainen, T. and Puumalainen, P.	Algorithms for IR Moisture Measurement	J. of Pulp and Paper Science, vol 21, no 7, pp J244-J249, July 1995				magazine	J Pulp and Paper Science						
1056		slitter;tension;tape	01-Apr-79	2	Lack, J.	Slitter Rewinders Keep Up With Converters	Converter, vol 16, no 4, pp 12-13				magazine	Converter						
2533		winder;trim;computer;nest	01-Nov-98	3	Lail, Paul W.	Can Mills Use Computer Power to Trim Rolls More Efficiently	Pulp & Paper, vol 72, no 11, pp 87,90, 91, November 1998				magazine	Pulp and Paper						
9816		coating;sensor	10-Jun-12		Lamparter	Optical In-line Control of Web Coating Processes	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Carl Zeiss MicroImaging GmbH					
1058		machine;winder;control;winder;centerwind;splice;	29-Apr-88		Lamson, Wade P.	Tension Transducer Control of Adjustable Speed Drives Applied	Proceedings of the International MOTORCON Conference 1st. Publ											
1057		wind;tension;control	01-Aug-89		Lamson, Wade P.	Controlling Web Tension Critical in Center Winders	Paper, Film & Foil Converter, vol 63, no 8, Aug 1989				magazine	Paper Film Foil Converter						
5983		book;thesis;baggy;moisture;gage_band;dry	01-Oct-10	130	Land, Cecilia	Baggy paper webs: Effect of uneven moisture and grammage profiles in different process steps	Ph.D thesis, Karlstand University, Sweden, Oct 2010	10	http://www.kau.se/sites/default/files/Dokument/subpage/2009/06/land_doctoral_thesis_13910.pdf	Baggy webs to investigate three particular stages in papermaking, namely drying, calendering and storage, and rank them according to their propensity for inducing baggy webs.	book	Karlstad Univ	Self	LandCeciliaPhdThesis2010	BookOther	pdf	31-Oct-10	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3749		wind;baggy;gage_variation;profile;strain	01-Oct-09	3	Land, Cecilia and Stople, Lennart and Beghello, Luciano	Modeling of bagginess due to storage of paper reels with ridges	TAPPI J, pp 19-22, October 2009	5	http://www.tappi.org/s_tappi/sec publications.asp?CID=12600&DID=565280	Ridges in the paper reel subject the paper in the ridge to a higher strain than the paper adjacent to the ridge. The strain difference can become a permanent strain difference, resulting in a baggy web	magazine	TAPPI						
5984	o	baggy_web;profile;gage_bandmoisture;drying	01-Oct-10	150	Land, Cecilia,	Baggy paper webs: Effect of Unweven moisture and grammage profiles in different process steps	Ph.D. Thesis, Karlstad University, Oct 2010	10	LandCeciliaPhdThesis2010		book	self Karlstad University	Karlstad Univ	LandCeciliaPhdThesis2010	BookOther	pdf	01-Oct-10	groundbreaking
3540	o	baggy_web;moisture;drying	01-Jan-08	6	Land, Cecilia, and Wahlstrom, Torbjorn and Stolpe, Lennart	Moisture streaks and their relation to baggy paper webs	J of Pulp and Paper Science, to be submitted 2008				magazine	J Pulp and Paper Science						
2706		hole;defect;identification	01-May-00	4	Landry, Henry J.	Sheet Hole and Defect Identification	Tappi J, vol 83, no 5, pp 64-67, May 2000	3	http://www.tappi.org/s_tappi/sec publications.asp?CID=4772&DID=517626	hole detectors, and the economic climate require timely and cost-effective identification and resolution of defects. To this end, papermakers can use a 10-step problem-solving methodology	magazine	TAPPI						
5722		wind;density;measure	01-Jan-80	5	Lane, George C	Automatic Roll Quality Control on the Two Drum Winder	TAPPI Finishing and Converting Conf, pp 133-138, 1980	2			conference	TAPPI	Wartsilla (Metso)	RollQualityLane	WindDensityScan	doc and pdf	07-Oct-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1059	o	slitter;knife;grind;mettalurgy;maintenance	15-Oct-95	20	Lang, Frank H. Jr.	Changing Trends in Winding Operations Create Demand for Quality Cut Knife Maintenance Program	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 125-144, Oct 15-18, 1995	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5460&DID=521781	However, upgrading tool steels is not enough. Paper mills and converters require the sharpest, keenest edge possible. With their conventional methods and equipment for grinding, they are unable to match the quality grind of that of a new knife	conference	TAPPI						
1060	o	slitter;knife;grind;maintenance	15-Oct-95	14	Lang, Frank H. Jr.	Changing Trends in Sheeting and Cross Cutting Operations Creat Demand for Quality Cut Knife Maintenance Program	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 207-220, Oct 15-18, 1995	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5460&DID=521822	However, upgrading tool steels is not enough. Paper mills and converters require the sharpest, keenest edge possible. With their conventional methods and equipment for grinding, they are unable to match the quality grind of that of a new knife	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1061	o	sheet	21-Sep-97	2	Lang, Frank H. Jr.	Virtually Dust Free Sheeting Using New Technology for the 21st Century. Sheeting Comitte Rountable Workshop Discussion	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 57-58, September 21-24, 1997	2	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=5326&DID=511807	expect the tolerances on sheeted paper to tighten further. To improve cutting efficiencies and achieve virtual dust free sheeting, both in the cross cut and slitting operations, it is paramount to evaluate current procedures and explore new techniques	conference	TAPPI						
2918	o	slitting;tutorial	02-Dec-01	10	Lang, Frank H. Jr.	Challenging Slitting's Form-Function Production	TAPPI Engineering and Finishing and Converting Conf. Proc., San Antonio, December 2-6, 2001				conference	TAPPI						
9942	o	lateral;dynamics;profile;model	02-Jun-13	17	Lange, Stephen and Looney, Michael and Carrie, Jeremy	Lateral dynamics simulation of webs having cross-machine direction variation	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	2			conference	WHRC	Procter & Gamble					
3286	o	modeling	05-Jun-05	10	Lange, Tom	Modeling and Simulation Technology Behind Everyday Products	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1062		curl;measure;online;camera	01-Aug-94	6	Langevin, Eric T. and Giguere, William	On-Line Curl Measurement and Control	Tappi J., vol 77, no 8, pp 105-110, Aug 1994	4	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=5597&DID=523851	A new device has been developed which enables the manufacturer to monitor edge curl continuously without the need for stopping and taking samples. The Curl Line 2000 combines a laser	magazine	TAPPI						
1063		air entrainment;foil bearing	01-Apr-63	5	Langlois, W.E.	The Lightly Loaded Foil Bearing at Zero Angle of Wrap.	IBM J. of Res. & Dev., 7, pp 112-116, Apr 1963											
1064		centerwind;roll structure;control	02-Oct-78		Lankiewicz, M.	Why Centerwind Assist	TAPPI Finishing and Converting Conf. Proc., 1978				conference	TAPPI						
2739		roller;audit;self-interest	01-Sep-00	3	Lanska, David	Ethics in the anilox-roll audit process	Converting Magazine, vol 18, no 9, pp 68-72, September 2000				magazine	Converting Magazine						
3527		book;flexo	01-Jan-07	100	Lanska, David J.	Common-Sense Flexography - A User's Guide to Immproved Pressroom Productivity	Printing Industries of America / Graphic Arts Technical Foundation, 2007	10			Book							
1065		slit	01-Jan-90		Largess, M.	Slitting Techniques	Paper, Film & Foil Converter, vol 64, no 1, Jan 1990				magazine	Paper Film Foil Converter						
5611		runnability;paper;web_break;measurement;strength;winder	01-Feb-62	5	Larocque, Gerard	The Physical Properties and Press Performance of Newsprint Paper	Tappi J., vol 45, no 2, pp 81-84, Feb 1962	2			magazine	TAPPI	New York Daily News	Properties PressPerform	Runnability Scan	doc and pdf	30-Dec-09	
9811		vacuum_dep	10-Jun-12		Larsen, Chuck	Improve Barrier Properties and Reduce Your Carbon Footprint with In-Line Metallizing and Top-coating	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Celplast Metallized Products					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5527		web_clean;dirt;tension;nip	01-Sep-00	4	Larsen, Gary	How contact rolls yield high-efficient web cleaning	Converting Magazine, vol 18, no 9, pp 54-57, September 2000	4			magazine	Converting	Polmag Tek	ContactRoll WebClean	MiscScan	doc and pdf	25-Dec-09	
2740	o	web_clean;contact;sticky_roller	01-Sep-00	4	Larsen, Gary and Corrado, Frank	How contact rolls yield high-efficient web cleaning	Converting Magazine, vol 18, no 9, pp 54-57, September 2000				magazine	Converting Magazine	Polmag Tek					
1067		lateral;guide	01-Oct-89		Larsen, S.	Web Guides - Friend or Foe?	Flexo, Oct 1989				magazine							
3336	o	drive	01-Dec-04	2	Larson, Melissa	Drive system retrofits breath new life into older lines	Converting Magazine, vol 23, no 12, pp, December 2004				magazine	Converting Magazine	Converting Magazine					
2785	o	safety;training;osha;accident	01-Feb-01	2	Larson, Melissa and Roisum, David R.	How safe are you?	Converting Magazine, vol 19, no 2, pp 58-59, February 2001				magazine		Converting Magazine					
1068		runnability;news;print	01-Jan-72		Larsson, Lars O.	The Web Break Reporting System used by Pressrooms in Sweden	TFL Report No 3:4, Stockholm, 1972											
1069	o	wind;book	01-Mar-87	250	Larsson, Lars O., ed.	Advances and Trends in Winding Technology.	Winding Technology Conf. Proc., Swedish Newsprint Research Center (TFL), Stockholm, Mar 16-171986	10			Book	STFL						
1070	o	wind;roll_structure;stress;density;j-line;roundness;experiment	16-Mar-87	8	Larsson, P. amd Svahn, T. and Westman, L. and Warner, M.	Comparison Between Different Methods For The Evaluation Of Reel Density	Winding Technology Conf. Proc., Swedish Newsprint Research Center (TFL), Stockholm, Mar 16-171986				conference	STFL						
1071		bearing;lubrication	01-Feb-96	6	Lauer, Dennis A.	Tribology - Key to Lubrication Selection	Tappi J., vol 79, no 2, pp 169-174, February 1996				magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5545		moisture;paper;box;container;strength	01-Jan-91	5	Laufenberg, Theodore L	Characterization of Paperboard, Combined Board and Container Performance in the Service Moisture Environment	TAPPI Int'l Paper Physics Conf Proc, pp 300-304, 1991	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5691&DID=515928	Corrugated container performance has traditionally been measured under static loading and environmental conditions but not under the cyclic moisture conditions	conference	TAPPI	Forest Products Lab	MoistureContainerPerform	MoistureScan	doc and pdf	17-Sep-09	
1073		unwind;design	18-May-86		Laumer, Edward P.	Unwind Section Design and Configuration	TAPPI Sheeting Pkg Sem (Wis Rapids WI) Notes: 9-10					TAPPI	Self					
1074		nip;calender	01-Oct-86	4	Laumer, Edward P.	The Saga of the Reversing Nip	TAPPI Finishing and Converting Conf. Proc., 1986				conference	TAPPI	Self					
1075		calender;nip	01-May-87		Laumer, Edward P.	Trouble at the Reversing nip of a supercalender	Tappi J., vol 70, no 5, may 1987.				magazine	TAPPI	Self					
1076		slitter;grinding	01-Oct-87	10	Laumer, Edward P.	How to Improve Slitter Performance on High-Speed Winders	TAPPI Finishing and Converting Conf. Proc., 1987				conference	TAPPI	Self					
1077	o	calender;roller;cover	18-Oct-92	16	Lauterbach, Thomas J.	Update: Synthetic Composite Covers in Supercalenders	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 237-252, Oct 18-21 1992	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5630&DID=524435	Synthetic composite Supercalender covers have been in use now for over a decade. They now occupy nearly 20% of the available "compliant" positions	conference	TAPPI	Beloit					
1078	o	calender;roller;cover	03-Jun-93	6	Lauterbach, Thomas J.	Synthetic Composite Covers in Supercalenders: Update	Tappi J., vol 76, no 6, pp 115-120, Jun 1993				magazine	TAPPI	Beloit					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1079		control;measurement;papermaking;instrumentation	01-Jan-79		Lavigne, John R.	Instrumentation Applications for the Pulp and Paper Industry	Miller Freeman Publications, Foxboro, Massachusetts, 1979											
1080		dry;film	04-Oct-94	14	Lawton, Donald W.	Air Drying of Thin Films	AIMCAL 1994 Fall Tech. Conf. Proc., Atlanta, pp 219-232, Oct 4-5, 1994					AIMCAL						
1081		board;box;adhesive;strength	01-Oct-88		Leake, C.H. and Wojcik, Robert	Influence of the Combining Adhesive on Box Performance	TAPPI Corrugated Containers Conf. Proc, Orlando, 1988					TAPPI						
1082		humidity;box;strength	01-Oct-93	5	Leake, C.H. and Wojcik, Robert	Humidty Cycling Rates: How they Influence Life Spans	Tappi J., vol 76, no 10, pp 26-30; Oct 1993				magazine	TAPPI						
5576		roller;optical;alignment;maintenance	01-Nov-93	3	LeBel, Gary A.	Optical Diagnosis for Misalignment	Converting Magazine, pp 46, 48,50, November 1993	3			magazine	Converting Magazine	Precision Optical Tooling	OpticalDiagnosisMisalign	RollerScan	doc and pdf	18-Dec-09	
5578		roller;alignment	01-May-94	3	LeBel, Gary A.	Improving Dryer Section Runnability through Optical Alignment	Tappi J., vol 77, no 5, pp 285-288, May 1994	2			magazine	TAPPI	Precision Optical Tooling	ImprovingDryerAligment	RollerScan	doc and pdf	18-Dec-09	
5577		roller;alignment	01-Dec-94	3	LeBel, Gary A.	Paper Machine Alignment	Papermaker, pp 12-14, Dec 1994	2			magazine	Papermaker	Precision Optical Tooling	PaperMachineAlignment	RollerScan	doc and pdf	18-Dec-09	
2672		roller;align	01-Nov-99	5	LeBel, Gary A.	Proper Machine Alignment Can Boost Productivity	Paper Film Foil Converter, vol 73, no 11, pp 72-79, November 1999				magazine	Paper Film Foil Converter	Precision Optical Tooling					
5528		moisture;loose;core;condition;wind	01-Oct-78	4	LeBel, Roland G	Core conditioning Elimination of pressroom core slippage in news rolls	Tappi J, vol 61, no 10, pp 23-26, Oct 1978	4			magazine	TAPPI	Reed Paper	MoistureLoseCoreConditionWind	MiscScan	doc and pdf	17-Sep-09	
1087		roll structure	02-Oct-78	8	LeBel, Roland G.	Core Conditioning Eliminates Slipping Cores of News Rolls in Pressroom	TAPPI Finishing and Converting Conf. Proc., 1978				conference	TAPPI	Reed Paper					
1088	o	wound_roll;shipping	15-Oct-95	50	LeBlanc, L. and Sabourin, L.M. and Karrass, L.T.	Panel Discussion: Partners in Progress Task Force Focuses on Runability	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 33-82, Oct 15-18, 1995				conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1089	o	wind;roll_structure;model;buckle;star	01-May-91	160	Lee, Bang-Eop	Buckling Analysis of Starred Roll Defects in Center Wound Rolls	OK. State Univ., WHRC, Ph.D. Thesis				thesis	WHRC						
3494	o	winding;taper;tension	10-Jun-07	8	Lee, C.W. and Leee, J.W. and Shin, K.H and Kwon, S.O.	Auto Taper Tension Profile Maker in a Converting Machine	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC						
6020		machine;foundation;design;alignment	01-Jan-92	92	Lee, J.P.	Paper Machine Dynamic Foundation Design	TAPPI PRESS, 1992	10	http://www.tappi.org/Bookstore/Books--CD-ROMs/Books/Engineering/Paper-Machine-Dynamic-Foundation-Design.aspx	A project of the Ad-Hoc Paper Machine Dynamic Foundation Committee of the Engineering Division, this book is useful to those involved in the design of foundations, including maintenance engineers, chief engineers, and paper machine managers	book	TAPPI						
2832	o	tension;drive;control;model	11-Jun-01	10	Lee, J.Y. and Shelton, J.J. and Chang, Y.B.	Air Entrainment on Two Sides of a Web Passing Through the Nip of Two Rigid Rollers	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC						
1090		acoustic;velocity;tension	01-Dec-86	60	Lee, Jaihak	Wave Propagation Velocity of an Air-Loaded Web	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1091		core	04-Oct-94	22	Lee, Mark	Sophisticated Cores, Thin Film Applications	AIMCAL 1994 Fall Tech. Conf. Proc., Atlanta, pp 105-126, Oct 4-5, 1994					AIMCAL						
1093		wind;filament; model	01-Dec-90		Lee, S.Y. and Springer, G.S.	Filament Winding Cylinders III - Selection of the Process Variables	J. of Composite Materials, Dec 1990				magazine							
1092		wind;filament; model	01-Dec-90		Lee, S.Y. and Springer, G.S.	Filament Winding Cylinders I - Process Model	J. of Composite Materials, Dec 1990				magazine							
9971	o	roller;print;registration	02-Jun-13	9	Lee, Wookyu and Koo, Hyunmo and Yeom, Dong Sun and Oh, Jun-who and Cho, Gyoujin	Control of registration accuracy of R2R gravure for fabricating inexpensive electronic devices	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	3			conference	WHRC	Sunchon National University					
1094	o	curl;steam_box	01-May-94	12	Leeman, D.A.	A New Approach to Moisture and Curl Control on Silicone Release Liners	TAPPI JOURNAL, May 1994, Vol. 77(5)	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4795&DID=520572	elevated temperatures at which silicone must be cured often overdry the paper substrate and produce curl toward the coated side. Steam remoisturization can control curl	conference	TAPPI						
9827		optical;defect_detect	10-Jun-12		Lehmkoster, Martin	Laser Developments and Concepts in Optical Web Coating Inspection Technologies	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	ISRA Surface Vision GmbH					

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9847		optical;defect_detect	22-Oct-12		Lehmkoster, Martin	Laser Developments and Concepts in Optical Web Coating Inspection Technologies	AIMCAL Web Coating Conference, Myrtle Beach, Oct 22-24, 2012			lighting- and camera-technologies assure a complete control of the coating process supported by data analysis	conference	AIMCAL	ISRA Surface Vision GmbH					
3724	o	paper;drying	07-Jun-09	13	Lehtinen, Antti and Bergstrom, Fredrik and Immonen, Eero and Nurmi, Simo and Martinsson, Lars and Ingvarsson, David and Juppi, Kari	Transient 2D Paper Web Drying Model based on CFD	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC						
1097		web-web;friction;compressibility	01-Oct-95		Lehtisalo, T.	The Role of Paper Friction and Compressibility in Winding	M.Sc. Thesis, Helsinki Univ. of Tech., 1995				thesis							
1098		calender;process;control	01-Jan-87	4	Lehtonen, Matti	Quality and Capacity Optimization in Supercalendering.	Appita, vol 40, no 1, pp 33-36, Jan 1987				magazine	APPITA						
3316	o	wind;pressure	05-Jun-05	10	Lei, H.	Winding of Interleaved Material	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC	Kodak					
2814	o	wind;model;thermal;air	11-Jun-01	10	Lei, H. and Cole, Kevin A.	A Thermoelastic Winding Model with Air Enrainment	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC	Kodak					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3081	o	air_entrain;wind	01-Jun-03	8	Lei, H. and Cole, Kevin A.	The Effect of Air-Side Leakage in Roll Winding	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC	Kodak					
3506	o	peel	10-Jun-07	8	Lei, H. and Cole, Kevin A.	Peeling Process Development for Thin Flexible Webs	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC	Kodak					
1099		tension;measurement;	01-Apr-75	2	Leibovich, M. et al	Contactless Web Tension Meter	Bumazh. Prom., no 4, pp 22-23											
1100		crowned roller;guide;belt;slip	01-Jan-85	6	Leikakh, L.M.	Mechanism of Lateral Stability of Flat Belt Transmissions	Vestnik Mashinostroeniya, Vol. 65, Issue 3, pp 30-34, 1985											
1101		reel;rebuild	01-Sep-93	1	Leino, Jorma	Reel Rebuilds and Modernizations	Tappi J., vol 76, no 9, pp 234, Sept 1993		http://www.tappi.org/s_tappi/sec_publications.asp?CID=4786&DID=514521		magazine	TAPPI						
5933		tungsten_carbide;slitter;tool	19-Apr-10		LeMaistre, David	Proper Grade Selection for Cemented Tungsten Carbide Tooling and Wear Part Applications in the Packaging and Converting Industry	TAPPI PLACE Conf, Albaquerque, Apr 20-22, 2010	2			conference	TAPPI	Crafts Technology					
1102		wind	01-Dec-89		LeMin, J.R.	More Winding Principles	Paper, Film & Foil Converter, vol 63, no 12, Dec 1989				magazine	Paper Film Foil Converter						
1103		control;performance;machine;design	27-Jan-87		Lemke, R.J.	New KL2000 Winder	CPPA Annual Mtg Preprints 73A, pp 349-351, Jan 27-28 1987				conference	CPPA						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1104	o	winding;two_drum;newsprint	16-Mar-87	7	Lemke, R.J. and Uotinen, J. and Oinonen, H.	Factors Involved in Winding Large Diameter Newsprint Rolls	Winding Technology Conf. Proc., Swedish Newsprint Research Center (TFL), Stockholm, Mar 16-171986				conference	STFL						
2582	o	tension;drive;model;sensor	06-Jun-99	9	Leonard, M. R.	Tension Control with and without Tension Sensors	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC						
9818		coat	10-Jun-12		Leonard, Mike	Gas Barrier Coatings for Flexible Packaging	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Sun Chemical					
1105	o	mechanics;concave roller	01-May-87	102	Leport, Michael L.	The Mechanics of Webs Encountering Concave Rolls	M.S. thesis, Web Handling Research Center at Oklahoma State Univ., May 1987				thesis	WHRC	WHRC					
2538		safety	01-Dec-98	3	Lerfald, Heidi	New Strategies Make Safety a #1 Priority	Pima's Papermaker, vol 80, no 12, pp 42-46, December 1998				magazine	PIMA						
9996		diffusion;drying;model	01-Jan-92	10	Lescanne, Y and Moyne, C and Perre, P	Diffusion mechanisms in a sheet of paper	Dryiing, pp 1017-1026, 1992				journal							
1106		customer;inspection	01-May-86	5	Leske, J.C.	Customer Requirements and Cut-Size Paper	Tappi J., vol 69, no 5, pp 88-92, May 1986				magazine	TAPPI						
904		board;box;moisture;humidity	01-Apr-77	4	Levans, U.I.	The Effect of Ambient Relative Humidity on the Moisture Content of Palletized Corrugated Boxes	Tappi J., vol 60, no 4, pp 79-82, Apr 1977				magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1107	o	trim	07-Oct-90	6	Libby, Terry L.	Trim Conveying - What the Mill Should Know	TAPPI Finishing and Converting Conf. Proc., Lake Buena Vista FL, pp 227-232, Oct 7-10 1990	2	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5730&DID=515339	These factors, energy usage, noise, dust emission, maintenance, retrofit flexibility, performance, will be compared for power unit and major system component designs.	conference	TAPPI	Air Trim					
5754		wind:trim_removal	01-Oct-94	3	Libby, Terry L.	Trim Conveying	Papermaker Magazine, pp 21-23, October 1994	4			magazine	Papermaker	Air Trim	TrimConveyingLibby	WindGeneralScan	doc and pdf	06-Nov-09	nearly unique
5690		mill;roller;vibration;maintenance;diagnostics	01-Feb-93	3	Liddle, Ian and Rellly, Steve	Expert Systems Offer Precise Analysis, Diagnosis of Mill Rotating Machinery	Pulp & Paper, vol 67, no 2, pp 53-55, Feb 1993	4			magazine	Pulp & Paper	Design Maintence Systems Inc	ExpertVibrationDiagnostic	VibrationScan	doc and pdf	01-Oct-09	
1110	o	print;tutorial	02-Oct-94	33	Liedke, Jane A.	The Printing Industry and Production Processes	TAPPI Finishing and Converting Conf. Proc., Chicago, pp 1-32, October2-5, 1994				conference	TAPPI						
1111		hygro;water;expansion;curl;measurement	01-Oct-95	8	Lif, J.O. and Fellers, C. and Soremark, C. and Sjodahl, M.	Characterizing the In-Plane Hygroexpansivity of Paper by Electronic Speckle Photography	J. of Pulp and Paper Science, vol 21, no 9, pp 302-307, September 1995				magazine	J Pulp and Paper Science						
1112	o		01-Jun-97		Lif, J.O. and Ostlund, S. and Fellers, C.	Determination of Linear Viscoelastic Material Properties of Paper for Web Mechanics in Printing Presses	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC						
1113		winding;interlayer;radial;pressure;measurement	15-Jul-88	50	Lin, Chingjuen	An Evaluation of Force Sensing Resistors to Measure Interlayer Pressure	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5829		wind;stress;model;viscoelastic	01-Dec-89	5	Lin, J.Y. and Westmann, R.A.	Viscoelastic Winding Mechanics	J. of Applied Mechanics, Dec 1989	3			magazine	J Applied Mechanics	Taiwan	ViscoelasticWindingMechanics	WindModelScan	doc and pdf	28-Nov-09	
1115	o	tension;drive;model;computer	01-Nov-92	94	Lin, Ku-Chin	WTS 4.1 - A computer based analysis program for multi-span web transport systems	OK. State Univ., WHRC, internal computer program					WHRC						
1116	o	tension;drive;model;computer	01-Nov-92	94	Lin, Ku-Chin	WTS 5.0 - A computer based analysis program for multi-span web transport systems	OK. State Univ., WHRC, internal computer program					WHRC						
1117		tension;model;news;print	01-May-91	19	Lin, P. and Hudyma, E.	Modeling of Web Tension Response and Its Application to Newsprint Printing	Proc. The Technical Assoc. of the Graphics Arts, pp 588-606, 1977											
1118		tension;model	01-May-91		Lin, P. and Hudyma, E.	Modeling of Web Tension Response and its Application to Newspaper Printing	TAGA Proc., May 1991											
1119	o	dancer;tension;control;model	06-Jun-93	12	Lin, P. and Lan, M. S.	Effects of PID Gains for Controller with Dancer Mechanism on Web Tension	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC						
3737		wind;buckle	01-Jan-06		Lin, P.M. and Wickert, J.A.	Corrugation and Buckling Defects in Wound Rolls	J. of Mfg Science and Engineering ASME, vol 128, pp 56-64, 2006				magazine							
1120		roll structure;torque;stop-to;control	10-Apr-84		Lind, L.	ASEA Rolltrimmer a System to Improve Paper Roll Quality	SPCI 84 World Pulp & Paper Week Proc. (Sweden): 482-486											
2725	c	nip;stress;rubber;cover;measurement	01-Mar-66	18	Lindley, P.B.	Load-Compression Relationships of Rubber Units	J. of Strain Analysis, vol 1, no 3, 1966				magazine							
5579		roller;rubber;nip;deflection;hardness;rolling_resistance;measurement	01-Mar-66	17	Lindley, P.B.	Load-Compression Relationships of Rubber Units	J. of Strain Analysis, vol 1, no 3, 1966	4			magazine	Journal of Strain Analysis		Load-Compression Relationships of Rubber Units	RollerScan	doc and pdf	18-Dec-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1121		drive;tension;torque;control;	19-Nov-80		Lindman, I.	Drive and Monitoring Systems for Coating Machines	BPBIF Conf. (Slough) Coating for the 80s: 17 p											
1122		runnability;press	01-Nov-81		Lindquist, H.	Runnability - What can be learned from the Collection of Web Break Data	ANPA/CPPA Conf. Proc, Newsprint and the Pressroom, Nov 1981											
1123		runnability	01-Apr-83	8	Lindqvist, U. and Jantunen, J. and Linnna, H, and Marttinen, T and Meinander, S. and Virtaperko, L and Ylinen, R.	Studies on Runnability Problems	Paperi ja Puu, vol 65, no 4, pp 305-312, 1983				magazine							
1124		paper;property;permeability	01-Sep-89		Lindsay, J.D.	The Anisotropic Permeability of Paper	TAPPI Enginering Conf. Proc, Sep 1989	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4784&DID=519468	complexity of flow in anisotropic materials, numerical modeling was applied to develop some of the tools necessary for analyzing the experimental data	conference	TAPPI						

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1125	o	reel_spool;nip;fem;model;runnability	02-Oct-94	8	Lindstrand, Bruce L.	Reel Spool Sizing and its Affects on Converting Performance	TAPPI Finishing and Converting Conf. Proc., Chicago, pp 125-132, October2-5, 1994	5	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5515&DID=522849	Larger diameter reel spools may help reduce the paper lost near the spool. This paper will first look at how spools have historically been applied to paper machines and then review some investigation into how spool size may affect	conference	TAPPI	Beloit					
1126		Density;paper;winder;roll	09-Apr-68		Link, P.J.	Papermaking Machine	U.S. Patent #3,377,033, Issued April 9, 1968				patent							
1127		density;drum;paper;winder;roll	23-Feb-71		Link, P.J.	Winding Apparatus	Canadian Patent #864, 360. Issued Feb 23 1971				patent							
1129	o	tension;profile;measure	19-May-91	15	Linna, Hannu and Moilanen, P. and Koskimies, J.	Web Tension Measurements in the Paper Mill	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 196-209, May19-22 1991					WHRC						
1130	o	tension;profile;measure;baggy_web	18-Jun-95	10	Linna, Hannu and Moilanen, P. andParola, M.	Variation of the Web Tension at the Roll Change in the Printing Press	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC						
1128		tension;profile;measure	01-Oct-88	5	Linna, Hannu and Moilanen, Pertti	Comparison of Methods for Measuring Web Tension	Tappi J., vol 71, no 10, pp 134-138, October 1988				magazine	TAPPI						
1132		tension;profile;runnability	01-Oct-92	13	Linna, Hannu and Yli-Kauppila, J. and Koskimies, J. and Moilanen, P.	Control of Web Tension Profile Improves Runnability and Product Quality in Paper Mills	Proc. of the EUCEPA Symp, Budapest, October 1992											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1133		tension;anisotropy	01-Sep-91		Linna, Hannu et al	Paper Anisotropy and Web Tension Profiles	TAPPI Paper Physics Conf. Proc., Sep 1991	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5691&DID=515925	anisotropy of many physical properties of paper can vary across the whole web in the paper machine even though new headbox and former designs have been developed	conference	TAPPI						
1134	o	tension;profile;wrinkle;model	06-Jun-93	10	Linna, Hannu, and Moilanen, Pertti and Parola, Markku	Web Tension and Wrinkles in the Printing Press	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC						
2978	o	dryer;rebuild	21-Oct-02		Litzler, Matt	Modifying an Existing Drier for Increased Productivity	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL						
1135		nip;contact;model	01-Dec-89		Liu, C. and Paul, B.	Rolling Contact with Friction and Non-Hertzian Pressure Distributions	J. of Applied Mechanics, Dec 1989				magazine	J Applied Mechanics						
1136		paper;*	16-May-88	3	Lockley, Robert	A New Approach to Paper Mill Drives	Systems Department, Asea AB, A New Approach to Paper Mill Drive											
14165		roller;align;measure;maintenance	30-May-16	1	Locoge, Pascal	Geometric precision improvees equipment performance	AIMCAL Europe Web Conf, Dresden, May 30 - June 2, 2016	3			conference	AIMCAL	Pruftechnik					
1137		quality;test;iso 9000	01-Feb-93	3	Lofgren, Sven-Ove et al	ISO 9000 Requirements for pulp and paper testing equipment maintenance	Tappi J., vol 76, no 2, pp 93-95, Feb 1993	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5651&DID=516471	experience of maintaining the pulp and paper testing equipment of over 30 different IS0 9000 certified facilities is summarized	magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9907		coating;hot-melt;design	01-Aug-12	4	Lombardo, Tom	Methods and design considerations for application of hot melt coatings	Converting Quarterly, qtr 2, 2012	3			magazine	AIMCAL	New Era Converting Machinery					
3250	o	drive	24-Oct-04		Looser, John A.	Drive & Control Systems: Technical Update	AIMCAL Fall Tech Conf, Charleston, October 24-27, 2004					AIMCAL	Faustel					
3509	o	web;vibration	10-Jun-07	8	Lopez, E. and Masters, J. and Muftu, S.	Free Vibration Analysis of Thin, Tensioned, Helically Wrapped Webs Using Mindlin-Reissner Finit Elemen Method	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC						
3307	o	air_turn	05-Jun-05	10	Lopez, E. and Muftu, S.	Investigation of Fluid Mechanics of Slotted Air Jets for Air Reverser Applications	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC						
1138		photo	11-Nov-73	2	Lord and Schoenberg	LandSco Light Photographs	TAPPI Finishing and Converting Conf. Proc., 1973				conference	TAPPI						
3343	o	slitter;positioning	26-Sep-05		Lorente, Quino	Improving Productivity with Automated Slitter Positioning	TAPPI PLACE Conf, Las Vegas, September 26, 2005	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5026&DID=526686	Automation improves product consistency, minimizes tool wear, and reduces worker exposure to production hazards. Automation also enables synergistic integration of the automated slitting system	conference	TAPPI	Tidland					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1139			01-Jan-50		Lorig, E.T.	Automatic Self-Centering Rolls and Pulleys	AISE Convention, Cleveland, 1950											
1140		wind;film	01-Sep-88		Lounsbury, Donn C.	Plastic Film Winding Technology as Practised is North America	TAPPI Polymers, Laminations and Coating Conf. Proc., Sep 1988				conference	TAPPI						
1141		wind;film	01-Jan-89		Lounsbury, Donn C.	Plastic Film Winding Technology as Practice in North Americal	J. Plastic Film Sheeting, Jan 1989				magazine							
1143		wind;film	01-Sep-89		Lounsbury, Donn C.	Recent Developments in Plastic Film Winder Reliability, Adaptability, Accessibility and Ease of Operation	TAPPI Polymers Conf. Proc., Sep 1989				conference	TAPPI						
1142		wind;film	01-Sep-89		Lounsbury, Donn C.	Recent Developments in Plastic Film Winder Reliability, Adaptability, Accessibility and Ease of Operation	TAPPI Polymers, Laminations and Coating Conf. Proc., Sep 1989				conference	TAPPI						
2733		safety;standard;guard	28-Aug-00	5	Lounsbury, Donn C.	ANSI Standards Combined with European Hazard Ranking Mechods Provide Plastic Web Processors with Powerul Tools for Enhancing Workplace Safety	TAPPI Polymers, Laminations and Coatings Conf. Proc., pp 591-595, Chicago, Aug 28-31, 2000				conference	TAPPI						
1144		drive;ac;dc	01-Mar-91		Lowe, J.A.	Considerations for an Economic Evaluation of AC vs DC Technology for Paper Machine Dries	TAPPI Short Course, Mar 1991				shortcourse	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3303	o	shear;slitter;aluminum	05-Jun-05	10	Lu, H and Lit, M.	Shear Slitting of Aluminum Webs	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC						
2589	o	slit;razor;fracture;model	06-Jun-99	14	Lu, H. and Liu, C.	The Stress Field in a Web During Slitting - Opening Mode	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC						
3510	o	slitting;shear	10-Jun-07	8	Lu, H. and Ma, J and Li, M. and Becker, B	Shear Slitting of Aluminum Webs Using Block Knives	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC						
3076	o	shear;slitting;model	01-Jun-03	8	Lu, H. and Wang, B. and Mah, J, and Viswanathan, H. and Li, M.	Finite Element Simulation of Shear Slitting of Aluminum	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC						
2837	o	shear;slit;measure	11-Jun-01	10	Lu, H. and Wnag, B. and Iqbal, J.	Deformation in Shear Slitting of Polymeric Webs	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3721	o	baggy_web;measure	07-Jun-09	13	Lu, Honging and Bhumannavar, Vinay and Liang, Junfeng and Ren, Yao	Computation of Span Length Variations due to Out-of-round Material Rolls	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC						
1145		burst;strength;instrument;strength;test;acoustic;measurement;c	07-Jul-88	2	Lu, Ming T.	On-Line Measurement of Strength Characteristics of a Moving	Tappi J., vol 48, no 6, pp 80-81, Jun 1975				magazine	TAPPI						
5756		wind;interlayer_slippage,crepe_wrinkle;J-line	01-Oct-74	5	Lucas, Robert G.	Internal Gearing in a Roll of Paper	TAPPI Finishing and Converting Conf. Proc., October 1974.	3			conference	TAPPI	Beloit	InternalGearingLucas	WindGeneralScan	doc and pdf	01-Oct-09	
1147		spreader	01-Apr-77	4	Lucas, Robert G.	Better Spreading of Web in the Winder - and How to Achieve It	Pulp & Paper, vol 30, no 4, pp 154-157, Apr 1977				magazine	Pulp and Paper	Beloit					
5755		wind;two-drum;dishing;telescope;frame;pressure;spreading	01-Jul-77	8	Lucas, Robert G.	Dishing in Wound Rolls of Paper	Tappi J., vol 60, no 7, pp 121-125, Jul 1977	4			magazine	TAPPI	Beloit	WindDishingLucas	WindGeneralScan	doc and pdf	01-Oct-09	
5757		wind;interlayer_slippage,crepe_wrinkle;J-line	01-Oct-81	8	Lucas, Robert G.	Winder Crepe Wrinkles - Their Causes and Cures	TAPPI Finishing and Converting Conf. Proc., 1981	4			conference	TAPPI	Beloit	WindCrepeWrinkleLucas	WindGeneralScan	doc and pdf	01-Oct-09	
5723		wind;density;measure;calculate;resolution	06-Feb-84	5	Lucas, Robert G.	Roll Density Computation	Beloit internal memo to KB Westlund	2			report	Beloit Corp	Beloit	DensityResolutionLucas	WindDensityScan	doc and pdf	07-Oct-09	
1151		paper;property;spreader;dishing	24-Jun-88	21	Lucas, Robert G.	Principles of Web Spreading	TAPPI 5th Finishing Conference,					TAPPI	Beloit					
5758		wind;interlayer_slippage,crepe_wrinkle;J-line;recycle	08-Oct-96	15	Lucas, Robert G.	Winding with Recycled Fibers and Additives	TAPPI Finishing and Converting Conf. Proc., Breakfast Presentation, Oct 8, 1996	3			conference	Beloit	Beloit	WindRecycleLucas	WindGeneralScan	doc and pdf	24-Oct-09	
5691		winder;vibration;design;throwout	16-May-04	3	Lucas, Robert G.	Causes for Unstable Winding on Two-Drum Winders	Beloit internal report	4			report	Beloit Lenox	Beloit Lenox	WindVibrationThrowoutLucas	VibrationScan	doc and pdf	01-Oct-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1154	o	wind;rider_roll;drive	04-Oct-98	20	Lucas, Robert G. and Werner, Pete	Practical Understanding of PM Winder Rider Roll Drives	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 83-112, October 4-8, 1998				conference	TAPPI	Beloit					
5903		wind;rider_roll;drive	01-Jan-01		Lucas, Robert G. and Werner, Pete	Rider Roll Drive Configurations for PM Winders	TAPPI Process Control, Electrical & Info. Conference Proceedings, 2001	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5116&DID=515407	application and configuration of the less dominate auxiliary driven sections (guide or lead-in roll, rider roll, paper and spreader rolls) are often given limited attention, and are poorly understood	conference	TAPPI	Beloit and Allen-Bradley					
1155	o	wind;defect;crepe_wrinkle	21-Sep-97	8	Lucas, Robert G. and Williams, R. Todd	Winding Problems Associated with Recycled Fibers and Additives in Today's Papers	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 151-158, September 21-24, 1997	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5326&DID=511817	The effect of the surface chemistry on paper-to-paper friction and wound roll density are introduced as important factors in evaluating the potential success of winding	conference	TAPPI	Beloit					
3091		dancer;tension;control	01-Jan-95	4	Ludwicki, J.E. and Unnikrishnan, R.	Automatic Control of Unwind Tension in Film Finishing Applications	Proc 21st Intl Conf on Industrial Electronics, Control and Instrumentation (IECON), vol 2, p 6-10, 1995											
9893		measure;speed;length	01-Apr-12	3	Luis, Jay	Accurately measuring web-product length, speed with non-contact lasers	Converting Quarterly, qtr 2, 2012	3			magazine	AIMCAL	Beta Laser Mike					

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2748	o	troubleshooting; team	16-Oct-00		Lush, Jim	Team Approach to Troubleshooting	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL						
1156		stress;deflection;press;roller;groove;dryer;bending;thin shell	01-Aug-73	5	Luthi, Oscar	Ring Stresses and Deflections of Thin-Walled Rolls and Application	Tappi J., vol 56, no 8, pp 121-124, Aug 1973				magazine	TAPPI						
2743	o	safety	16-Oct-00		Lutness, John	Meeting Today's Safety Challenges	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL						
1157		guide	01-Apr-96	4	Luttenberg, David	Guide Lines	Package Printing & Converting, pp 40-44, April 1996				magazine	Package Printing & Converting						
9955	o	web_handling; myth	02-Jun-13	10	Lynch, Ronald	Myth busters: web handling and the power of modeling	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	3			conference	WHRC	self					
10082		roller;tension;traction;drag;calculation	20-Oct-14		Lynch, Ronald	Things the Capstan Formula Tells Us	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014	4			conference	AIMCAL	self					
14124	o	roller;tension;design	07-Jun-15		Lynch, Ronald J.	Redefining our Rules of Thumb	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	self					
9774		nonwoven;ultrasonic;bonding;embossing	01-Nov-11	1	Lynch, William	Ultrasonic bonding, laminating, embossing of nonwovens and films	Converting Quarterly, qtr 4, 2011	5		ultrasonic bonding	magazine	AIMCAL	Nonwovens, Herrmann Ultrasonics					
9780		ultrasonic_bonding	01-Nov-11	3	Lynch, William	Ultrasonic bonding, laminating and embossing of nonwovens and films	Converting Quarterly, qtr 4, 2011	5			magazine	AIMCAL	Hermann Ultrasonics Inc					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5612		runnability;paper;web_break;measurement;strength;winder	01-Jun-72	9	Lyne, M.B. and Jackson, M. and Ranger, A.E.	The In-Plane, Elmendorf, and Edge Tear Strength Properties of Mixed Furnish Papers	Tappi J., vol 55, no 6, pp 924-932, Jun 1972	2			magazine	TAPPI	MacMillan Bloedel	InplaneTearStrength	Runnability Scan	doc and pdf	30-Dec-09	
2924	o	calender	02-Dec-01	5	Lyons, Anthony V.	Formulation Technology and the Calendering Process Need to Work Together for Optimum Coated Paper Performance	TAPPI Engineering and Finishing and Converting Conf. Proc., San Antonio, December 2-6, 2001				conference	TAPPI						
1159	o	calender;pilot	07-Oct-90	24	Lyons, Anthony V. and Thuren, A.R.	Scale Up Procedure for Relating Pilot Calendering to Commercial Reality	TAPPI Finishing and Converting Conf. Proc., Lake Buena Vista FL, pp 5-28, Oct 7-10 1990	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5730&DID=515323	fundamentals of calendering and nip physics are reviewed and models of the nip mechanics are tested using nip width measurements. A scale-up procedure is then defined	conference	TAPPI						
1160	o	calender;pilot;model	01-Oct-92	11	Lyons, Anthony V. and Thuren, Alan R.	Scale Up Procedure for Relating Pilot Calendering to Commercial Reality	Tappi J., vol 75, no 10, pp 173-183, Oct 1992	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4816&DID=519681	fundamentals of calendering and nip physics are reviewed and models of the nip mechanics are tested using nip width measurements. A scale-up procedure is then defined	magazine	TAPPI						
1161		ultrasonic;sensor	01-Apr-92		Maas, G.W.	Ultrasonic Scanning - A New Technology for Optimum Web Travel Control	Coating, Apr 1992											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3469		cof;film;additives	01-Jan-07	2	MacManus, Shawn Lucas and McKinley, Brian (Ampacet Corp)	Adding up Additives	Paper, Film & Foil Converter, vol 81, no 1, pp 38-39, January 2007	4	http://pffc-online.com/techreports/paper_adding_additives/	functional additives commonly found in packaging films—such as slips, antiblocks, and antioxidants—that make films easier to process, as well as antistats, UV stabilizers, and antifogs	magazine	Paper Film Foil Converter						
5613		runnability;paper;web_break;flaw;contaminant;measurement;tension;winder	01-Jul-65	8	MacMillian, F.A., Farrell, William R. and Booth, K.G.	Shives in Newsprint: Their Detection, Measurement and Effects	Pulp & Paper Canada, pp T361-T369, Jul 1965	4			magazine	Pulp and Paper Canada	Abitibi	ShivesNewsprintQuality	Runnability Scan	doc and pdf	30-Dec-09	
1163		biaxial;stress;measurement;biaxial;tension;uniaxial tension	01-Jul-88	93	Magill, Michael Allen	Contacting Web Biaxial Stress Transducer	MS Thesis, Web Handling Research Center at Oklahoma State Univ, July 1988				thesis	WHRC						
1164		identification	01-Jan-80		Mahig, J. and Bou-Ghannam, A.	Multivariable Identification of a Paper Plant Under Non-Steady	IEEE Conf. Proc. of the Annual Southeastern Symposium, 1980											
5614		runnability;paper;web_break;measurement;strength;winder	01-May-83	5	Mai, Yiu-Wing	On the Tear Resistance of Paper	Appita, vol 36, pp 461-465, May 1983	2			magazine	APPITA	Univ of Sidney	TearResistPaper	Runnability Scan	doc and pdf	30-Dec-09	
3270		board;two-drum;winder;productivity	01-Feb-05	3	Maier, Stefan	When One is More than Two	PaperAge, pp 36-38, Jan/Feb 2005				magazine	Paper Age						

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9840		coat	22-Oct-12		Maki, Eric	Intermittent Coating: a Comparison of Three Methods	AIMCAL Web Coating Conference, Myrtle Beach, Oct 22-24, 2012			three methods of intermittent coating: backing roll slot die, tensioned web slot die, and comma bar. The fundamental process and associated problems of skip coating and patch registration from one side to the other are the same,	conference	AIMCAL	MEGTEC Systems					
1166		roll structure;duplex winder;control;hardness;tension;	25-Apr-74		Makkonen, Raimo	Winding Parameters and the Twin Winder Concept	Paperi Puu, vol 56, no 4a, pp 261-262 265-266				magazine							
1167		duplex winder;center wind;roll structure;	01-Apr-75	4	Makkonen, Raimo	Winding of Lightweight Coated Papers With Wartsila Twinwinder C	Paper Age, vol 11, no 4, pp 30-31				magazine	Paper Age						
1168	o	wind;roll_structure;density;core;chuck;newsprint;duplex winder	16-Mar-87	6	Malinen, Unto and Malmi, Jarmo	Single-Drum Winding for Newsprint	Winding Technology Conf. Proc., Swedish Newsprint Research Center (TFL), Stockholm, Mar 16-171986				conference	STFL						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1169		nonwoven;spunbond;process;design	01-Jun-95	6	Malkan, Sanjiv R.	An overview of spunbonding and meltblowing technologies	Tappi J., vol 78, no 6, pp 185-190, June 1995	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4744&DID=518326	overview of the spunbonding and meltblowing technologies. It also addresses the differences between the two processes, product characteristics, process economics, and process equipment	magazine	TAPPI						
1170		film;material;property	01-Feb-91		Malkan, Sanjiv R. and Wadsworth, L.C.	Process Structure Property Relationships in Melt Blowing of Different Molecular Weight Polypropylene Resins Part I - Physical Properties	INDA J. of Nonwovens Research, vol 3, no. 2, 1991											
1171		paper;centerwind;calender;nip;web;roller	16-Oct-83		Malkia, Hannu	Hot Calendering and Large-Diameter Reels as Part of Improving	TAPPI Finishing and Converting Conf. Proc., 1983				conference	TAPPI						
1172		process;control;automation	06-Oct-85		Malkia, Hannu	Process Control and Automation of Supercalenders	TAPPI Finishing and Converting Conf. Proc., 1985				conference	TAPPI						
1173		duplex winder;computer	06-Oct-85	4	Malmi, Jarmo	Automation and Control on a Single-Drum Winder of New Design	TAPPI Finishing and Converting Conf. Proc., 1985				conference	TAPPI						

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1174	o	calender;lwc	04-Oct-98	8	Malmsten, Vesa	Calendering of LWC Web Offset Paper	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 191-202, October 4-8, 1998	2	http://www.tappi.org/s_tappi/search_new.asp	Two new generation 12-nip off-line calenders started up at UPM-Kymmene Rauma Mill in January 1998 together with the new PM 4 producing light weight coated paper for mainly offset printing	conference	TAPPI						
3245	o	pattern_coat	24-Oct-04		Maloney, Jim	Advantages of Pattern Coated Adhesive	AIMCAL Fall Tech Conf, Charleston, October 24-27, 2004					AIMCAL	Tapemark					
3147	o	drive;automation;control	26-Oct-03		Malucci, Joe and Tielkemeier, Matt	Drive and Control Integration (Omron IDM)	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003					AIMCAL						
1175		capacitor;wind	01-Jan-83		Maludin, G. H. and Reichenbach, M. L. and Sena, A. A. and Walter, J. K. S. Jr.	Precision Roll Winding Equpment for High Reliability Liquid Filled Plastic Film Capacitors	Proc. of the 3rd Capacitor and Resistor Technology											
9845		treat;flame	22-Oct-12		Mancinelli, Stefano	Flame Treatment Technology and its last developments	AIMCAL Web Coating Conference, Myrtle Beach, Oct 22-24, 2012				conference	AIMCAL	Heat Technologies, Inc					
2753	o	flame_treat	16-Oct-00		Mandoloni, Pietro	Polarized Flame Treatment	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL						
1176		automation;time cycle	01-Sep-80		Manfield, W.H.	Winder and Sheeter Efficiency	Paper Technology and Industy, pp 295-297, Sep 1980				magazine	Paper Technology						
1177	o	roller;grind;tolerance;measurement		4	Maniatty , George S.	Roll Grinding Measurements and Their Effect on PaperMaking	Paper Age				magazine	Paper Age						

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1178	o	roller;grind;tolerance	24-Oct-93	10	Maniatty , George S.	Roll Grinding Measurements and their Effect on Paper Making	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 311-320, Oct 24-27 1993	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5578&DID=523502	This presentation will discuss roll grinding measurements and tolerances, and their effect on paper making. Some guidelines on how often to change rolls and what other work should be performed	conference	TAPPI						
1179	o	calender;steam_shower;curl	02-Oct-94	8	Mann, Kimberly C.	The Use of Steam Showers on Soft Calenders and Supercalenders to Improve Print Quality	TAPPI Finishing and Converting Conf. Proc., Chicago, pp 65-72, October2-5, 1994				conference	TAPPI						
1180	o	calender	21-Sep-97	6	Mann, Kimberly C. and Pogue, Shaun R.	Upgrading Steam Shower Technology for Improved Supercalender Productivity	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 9-14, September 21-24, 1997				conference	TAPPI						
5503		measure;ultrasonic;wave;paper	01-Aug-79	4	Mann, R.W., Baum, Gary A. and Habeger, Charles C.	Elastic Wave Propagation in Paper	Tappi J., vol 62, no 8, pp 115-118, Aug 1979	2			magazine	TAPPI	IPC	ElasticWavePaper	MeasurementScan	doc and pdf	29-Dec-09	
5489		material;modulus;shear;poisson_ratio;paper;measurement	01-Feb-80	4	Mann, R.W., Baum, Gary A. and Habeger, Charles C.	Determination of All Nine Orthotropic Elastic Constants for Materials	Tappi J., vol 63, no 2, pp 163-166, Feb 1980	3			magazine	TAPPI	IPC	NineOrthotropic	MaterialScan	doc and pdf	29-Dec-09	
2889	o	coater;die;gap	22-Oct-01		Manning, Bryan	The Use of Capacitive Non-Contact Thin Gap Sensors in Controlling Coater Gap Uniformity	AIMCAL Fall Tech Conf, Oct 22-24, 2001					AIMCAL						

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1183		wrinkle;model	01-Jan-70	21	Mansfield, E. H.	Load Transfer via a Wrinkled Membrance	Proc. Royal Society of London, 315, pp 269-289, 1970											
1184		wrinkle;model	01-Jan-77	24	Mansfield, E. H.	Analysis of Wrinkled Membranes with Anisotropic and Nonlinear Elastic Properties	Proc. Royal Society of London, 353, pp 475-498, 1977											
10039		thickness;gage;gauge;sensor;scanner;thickness	01-May-14	5	Marchand, Hector	Selecting the correct gauging syhstem configuration for your coating line	Converting Quarterly, qtr 2, 2014	5			magazine	AIMCAL	NDC					
3349	o	gage;caliper;scanner	26-Sep-05		Marchand, Hector E.	Non-Nuclear Gauging Alternatives Offer Enhanced Performance with Simplified Use	TAPPI PLACE Conf, Las Vegas, September 26, 2005	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5026&DID=526858	This paper considers the role non-nuclear Infrared backscatter and X-Ray transmission sensors can play in the measurement of coatings and laminate layers online	conference	TAPPI	NDC					
1185		film;package;print;convert	28-Aug-94		Marchetta, D. and Bell, E.	Package Printing and Converting: New Trends and Developments	TAPPI Polymers, Laminations and Coatings Conf. Proc., August 28 - September 1, 1994	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5533&DID=523377	Good examples of the latest achievements in gravure press design and construction are offered by the “PATRIOT” and the “ROTO CADET” gravure printing units	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1187	o	roll;storage;handling	06-Oct-91	4	Marcoux, Stewart G.	Integrated Automatic Storage and Retrieval in a Fine Papers Finishing Department	TAPPI Finishing and Converting Conf. Proc., Houston, pp 17-20, Oct 6-10 1991	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5678&DID=516355	Domtar Fine Papers designed and installed an integrated automatic warehousing and shipping system for its Windsor (Quebec) finishing department. The system manages and handles all shipping and in-process rolls	conference	TAPPI						
1188		roll;handling;storage	01-Jul-92		Marcoux, Stewart G.	Integrated Automatic Storage and Retrieval in a Fine Papers Finishing Department	Tappi J., vol 75, no 7, Jul 1992				magazine	TAPPI						
1186	o	sheet	06-Oct-96	6	Marcoux, Stewart G. and Richard, A. and Paulson, P.	Installation of a Modern 12 Pocket Cutsize Sheeter	TAPPI Finishing and Converting Conf. Proc., Bal Harbor, FL, pp 79-84, Oct 6-9, 1996	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5386&DID=521555	installation of a new cutsize sheeter, establishing the need, site selection, preliminary engineering, purchasing, detailed engineering of the sheeter layout and option selections, as well as, the human resources	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1189	o	sheet	06-Oct-91	6	Margarida, Thomas A.	Increasing Quality on Existing Sheeters	TAPPI Finishing and Converting Conf. Proc., Houston, pp 223-228, Oct 6-10 1991	2	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5678&DID=516364	new sheeting technology can be added to existing machines to increase production, accuracy, cut quality and pile quality by reducing down time and waste	conference	TAPPI						
1190		tension;dancer;model	01-Mar-66	6	Marhauer, H. H.	They Dynamics of Web Tension Measurement	ISA Transactions, vol 5, no 3, pp 242-247, 1966											
1191		web;tension;measurement;experiment	01-Jan-66		Marhauer, Hans H.	The Dynamics of Web Tension Measurement	ISA Transactions, vol 5, no. 3, pp 242-247, Mar 1966											
3251	o	laser_engrave;rollers	24-Oct-04		Marino, Martin	Ceramic Cylinders to Meet Tomorrow's Coating Needs	AIMCAL Fall Tech Conf, Charleston, October 24-27, 2004					AIMCAL	Interflex Laser Engravers					
1192		guide	01-Feb-57		Markey, Frank	Edge Position Control for the Steel Strip Industry	Iron and Steel Engineer, Feb 1957											
5464		corona_treat	27-Mar-96	39	Markgraf, David A.	Corona Treatment: an Overview	CEMA Shortcourse The Coating and Lamination Process Substrates, Coatings and Equipment, March 27, 1996	3			shortcourse	CEMA	Enercon	CoronaTreatMarkgraf96	CtgCema96	doc and pdf	01-Oct-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2960		corona_treat;troubleshoot	09-Sep-02		Markgraf, David A.	Troubleshooting Corona Treatment Euipment in the Converting Industry	TAPPI PLACE Conf. Proc., Boston, Sept 9-12, 2002	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5090&DID=508190	paper will cover "troubleshooting" as well as preventive maintenance, but the highest percentage time, money and frustration that can be saved will be saved by conscientious maintenance	conference	TAPPI	Enercon					
3027	o	corona_treat	13-Apr-03	5	Markgraf, David A.	Corona Treaters - The invisible bond between Coating and Substrates	CEMA Coating and Laminating Seminar, Chicago, April 15, 2003				shortcourse	CEMA	Enercon					
3141	o	treat;coat;print	26-Oct-03		Markgraf, David A.	What Should I Use to Treat My Film? (Enercon Industries)	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003					AIMCAL	Enercon					
3200	o	corona_treat	25-Oct-04	1	Markgraf, David A.	The Treatment of Thinner Substrates	AIMCAL Fall Tech Conf, Charleston SC, Oct 24-27, 2004					AIMCAL	Enercon					
10015		edge_guide;sensor;control	01-Dec-13	3	Marks, Thomas	All air-powered web guiding offers efficienty, simplicity, saftety for web handling	Converting Quarterly, qtr 4, 2013	4			magazine	AIMCAL	Coast Controls					
2847	o	spread;concave;roller	11-Jun-01	10	Markum, Ron and Good, J. Keith	Design of Contoured Rolls for Web Spreading	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1195		tension;control;model	01-Jan-73	6	Martin, J. R.	Tension Control for Web-Off-Set	The Penrose Graphic Arts and International Annual, vol 66, pp 209-214, 1973											
1194	o	sheet;slit;cut	02-Oct-94	6	Martin, J. R.	Powerful Peripherals Make Paper Cutting More Productive	TAPPI Finishing and Converting Conf. Proc., Chicago, pp 111-116, October2-5, 1994	2	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5515&DID=522844	A “how-to” upgrade pathway is provided, and emphasis is placed on the labor savings and productivity gains paper houses and merchants might expect when they add peripherals to their existing cutters	conference	TAPPI						
5580		roller;dancer;tension;inertia;model	02-May-72	13	Martin, John R.	Martin's Exculsive Inertia Compensation	report and patent	4			multiple	Martin Automatic	Martin Automatic	MartinInertiaCompensation	RollerScan	doc and pdf	18-Dec-09	
9837		data_acquisition	22-Oct-12		Martin, Joseph	Process Optimization & Order Quality Traceability Using a Real-Time Data Acquisition & Management Network	AIMCAL Web Coating Conference, Myrtle Beach, Oct 22-24, 2012			monitor key process variables using a network of PCs and sensors to ensure Key Process Metrics (KPMs) remain within acceptable boundaries; to provide customers order quality traceability reports; and to capture “best run” recipes	conference	AIMCAL	Qualitek Solutions					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1196		tension;profile;measure	01-Jan-94	80	Marttinen, Tapio	A Contactless Tension Profile Meter	Ph.D. Thesis, Applied Physics Series No. 192, Finishing Academy of Technology, Helsinki, Finland, 1994				thesis							
1197		velocity;tension;tension;measurement;tension		6	Marttinen, Tapio and Luukkala, Mauri	An Acoustic, Noncontacting Instrument to Measure Tension in a Mill	Ultrasonics Symposium, 1985, pp 553-556											
1198		threading	01-Aug-77		Masson,	Web Winding Apparatus	Research Disclosure, no160, pp 33											
1201		drive;tension;control	01-Jan-97		Mathur, Priyadarshee D. and Messner, William	Controller Development for a Prototype High-Speed Low-Tension Tape Transport	IEEE Transactions on Control Systems Technology, to appear											
1202	o	wrap;film	18-Oct-92	2	Matics, D.A.	A Comprehensive Overview of the Status of Film Wrapping of Paper Rolls	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 227-228, Oct 18-21 1992	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5630&DID=524433	panel discussion is to review some of the more advanced stretch film wrapping facilities in operation in the world today, insurance considerations, recyclability,	conference	TAPPI						
1203	o	roll;wrap;film	01-Oct-89	10	Matics, D.A. and Hellgren, B.	Film Packaging of Paper Rolls: History, Development and Results to Date	TAPPI Finishing and Converting Conf. Proc., Kansas City MO, pp 117-126, Oct 1-5 1989				conference	TAPPI						
1204		roll;wrap;film	01-Apr-90		Matics, D.A. and Hellgren, B.	Film Packaging of Paper Rolls	Tappi J., vol 73, no 4, Apr 1990				magazine	TAPPI						
5529		sheeting;curl;decurl;dancer	01-Oct-91	3	Matthews, Joseph	Web Conditioning Systems Essential for Optimizing Sheeting Efficiency	Pulp and Paper, vol 65, no 10, Oct 1991	3			magazine	Pulp and Paper	Maxson Automatic	WebConditionSheet	MiscScan	doc and pdf	25-Dec-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1205		corrugator;roller;grinding;precision	01-Jul-93	5	Mattison, Phil L. Jr.	Precision Grinding to Produce More Accurate Corrugating Rolls	Tappi J., vol 76, no 7, pp 140-145, July 1993	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4806&DID=520228	The accuracy of the flutes on the corrugating roll has a profound effect on productivity and box strength. This report describes the technology used to precision-grind the corrugating rolls	magazine	TAPPI						
1206	o	calender	06-Oct-96	6	Maume, J.P. and Schut, T. and Norman, J.C.	A Comparison of Characteristics of Paper Supercalendered with Rolls of Aramid Filling, Cotton Filling and Polymer Covers	TAPPI Finishing and Converting Conf. Proc., Bal Harbor, FL, pp 9-14, Oct 6-9, 1996	3	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5386&DID=521546	compares the supercalendering effects on paper finished with meta-aramid paper filled rolls, cotton filled rolls and fiber-reinforced epoxy (polymer covered) rolls	conference	TAPPI						
3371		psa;coating	01-Feb-06	2	Mausar, Joe	The PSA Process	Paper, Film & Foil Converter, vol 80, no 2, pp CL10-11, Feb 2006	2	http://pffc-online.com/mag/cl_2006_psa_process/	PSA construction. It is commonly a combination of facestock (for a label) or carrier/backing (for a tape), optional primer coat, adhesive, and silicone release coating on a protective liner	magazine	Paper Film Foil Converter	Chemsultants Int'					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1207	o	safety	06-Oct-96	6	McCann, K. and McKee, M.	Performance Technology: Behavioral Underpinnings for Safety	TAPPI Finishing and Converting Conf. Proc., Bal Harbor, FL, pp 187-192, Oct 6-9, 1996	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5386&DID=521550	Performance Technology that focuses on the prevention of injuries is becoming a mainstay for those organizations seeking the next level of proactive accident prevention	conference	TAPPI	Liberty Mutual Insurance					
6092			01-Jan-11		McCann, M.J. and Abbot, M.J. and Jones, Dilwyn P	The Power of Simple Models Used on Complex Processes	Proc of the AIMCAL Fall Tech Conf, 2011				conference		self					
1208	o	vacuum;drum;cool;film;wrinkle	18-Apr-98		McCann, M.J. and Jones, Dilwyn P	Web Coating Dynamic Thermal and Wrinkling Model	Soc of Vacuum Coaters, Proc, pp 412-417, Boston, April 18-23, 1998.											
3322		drum;wrinkle;heat	01-Jan-04	6	McCann, M.J. and Jones, Dilwyn P.	Buckling or Wrinkling of Thin Webs off a Drum	Soc of Vacuum Coaters 47th Tech Conf, pp 638-643, 2004											
1212	o	wind;interlayer_slippage	01-Jun-97		McDonald, J .David and Menard, A.	Layer-to-Layer Slippage with Paper Rolls during Winding	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC	PAPRICAN					
2585	o	friction;measure;crepe;print;runability	06-Jun-99	12	McDonald, J. David	Understanding Friction	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC	PAPRICAN					
5724		wind;density;measure	01-Sep-85	7	McDonald, J. David and Farrell, William R	Winder optimization using an on-line microcomputer	Pulp & Paper Canada, vol 86, no 9, pp 56-64, Sep 1985	4			magazine	Pulp and Paper Canada	Abitibi-Price Paper	WinderDensityOptimization	WindDensityScan	doc and pdf	07-Oct-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1210		friction;newpaper;crepe	01-May-94	17	McDonald, J. David and Gratton, M.F. et al	Measuring Paper Friction: Testing Conditions and Papermaking Factors	Paprican internal report, PPR 1080, May 1994						PAPRICAN					
3083	o	wind;roundness;clamp;tension	01-Jun-03	8	McDonald, J. David and Hamel, J. and Menard, A.	Out-of-Round Paper Rolls	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC	PAPRICAN					
5803		wind;interlayer_slippage;jline;crepe_wrinkle	01-Apr-99	6	McDonald, J. David and Menard, A	Layer-to-layer Slippage Withing Paper Rolls During Winding	J Pulp and Paper Science, vol 25, no 4, pp 148-153, April 1999	3			magazine	J Pulp and Paper Science	PAPRICAN	LayerSlippageRollsMcDonald	WindMeasureScan	doc and pdf	22-Sep-09	
1211		friction;newpaper;crepe;winding;slippage	01-May-94	20	McDonald, J. David and Menard, A.	Layer-To-Layer Slippage within Paper Rolls During Winding	Paprican internal report, PPR 1193, January 1996						PAPRICAN					
1213	o	friction;measure;wind;nids	06-Oct-96	10	McDonald, J. David et al	Measuring Paper Friction: Testing Conditions and Papermaking Factors	TAPPI Finishing and Converting Conf. Proc., Bal Harbor, FL, pp 163-172, Oct 6-9, 1996	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5386&DID=521545	Four different instruments were used to determine the effect of measurement conditions on paper to paper coefficient of friction	conference	TAPPI	PAPRICAN					
1214		capacitor;wind	01-Jan-90	7	McDonald, M. J. and Reichenbach, M. L.	Sandia's New Generation Winding Machine	Proc. of the 10th Capacitor and Resistor Technology Symposium, The Components Technology Institute, pp 158-164, 1990											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5680		tension_control;dancer;model;methodology	01-Oct-09	9	McDow, Benjamin C. and Rahn, Christopher D.	Adaptive Web Tension Control using a Dancer Arm	Tappi J., vol 81, no 10, pp 197-205, October 1998	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4767&DID=518866	This paper proposes an adaptive web-tension controller that uses dancer arm position and take-up roller velocity sensors and a supply-roller torque actuator. The controller learns and cancels	magazine	TAPPI	Clemson Univ	AdaptiveTensionDancerControl	TensionScan	doc and pdf	25-Dec-09	
3009		psa;adhesive;tape	06-Mar-03	3	McGann, John	PSAs take hold.	Machine Design, pp 58-60, March 6, 2003				magazine							
1216		winding;kinematics;roll structure;torque	01-Dec-82	3	McKelvey, J P.	Dynamics and Kinematics of Textile Machinery	Am. J. Phys., vol 50, no 12, pp 1160, Dec 1982											
1217		winding;kinematics;roll structure	12-Jul-88	3	McKelvey, J. P.	Kinematics of Tape Recording	Am. J. Phys., vol 49, no 1, pp 81, Jan 1981											
1218		roller;bearing;vibration;maintenance	01-Feb-81		McLain, D. and Hartman, D.	New Instrumentation Techniques Accurately Predict Bearing Life	Pulp & Paper, February 1981				magazine	Pulp and Paper						
5465		coating;VOC;environment;solvent	27-Mar-96	29	McIlwee, Roy J	Low Cost Alternatives in VOC Control	CEMA Shortcourse The Coating and Lamination Process Substrates, Coatings and Equipment, March 27, 1996	3			shortcourse	CEMA	Smith Environmental	VOCcontrol Smith	CtgCema96	doc and pdf	01-Oct-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1219	o	drive;drag;tension;energy;calculation;measurement	01-Apr-93	4	McMahon, Michael J.	Dragload Analysis: a unique method of improving paper machine efficiency	Tappi J., vol 76, no 4, pp 89-91, Apr 1993	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4805&DID=520183	Dragload is the force required to drive a foming fabric while the sheet is being dewatered. The sugested method for calculating dragload and component dragload uses	magazine	TAPPI						
1220	o	drive;drag;tension;energy;calculation;measurement	01-Apr-95	2	McMahon, Michael J.	A simple method for determining drive roll load shares on machines with line shaft drives	Tappi J., vo 78, no 4, pp 260-261, April 1995	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4743&DID=517780	On machines that are not totally electrically driven, there is often little knowledge about the relative load shares and dragloads. In the best of cases, torque curves might be available	magazine	TAPPI						
1221		covered roll	01-Sep-82	4	McNamee, James P.	Compositions of the Modern Roll Cover	PIMA, pp 25-28, Sep 1982				magazine	PIMA						
1222		guide;unwind	01-Apr-90		McWilliams, L.	Selecting Web Guiding Control for Unwinding	Paper, Film & Foil Converter, vol 64, no 4, Apr 1990				magazine	Paper Film Foil Converter						
2951		rail;paper;roll;ship;damage	01-Jul-02	1	Meadows, Donald G.	Guidelines help keep the dents out of paper shipments	Solutions?, pp 49, July 2002				magazine	TAPPI						
1223		motor;control;torque;electric drive;	01-Sep-86	4	Means, Frank L.	Guidelines for the Application of Adjustable-Frequency Motor Control	Tappi J., vol 69, no 9, pp 76-79, Sep 1986				magazine	TAPPI						
1224		deposit;film;energy;coating;	29-Apr-88		Meckel, Ben B.	Free Span Web Sputter Coater Used to manufacture a Broad Line	Proceedings of the 27th Annual Technical Conference-Society of											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2673		sheeter	11-Nov-99	2	Mecker, Kerstin	Sheeters: on the Move	Pima's Papermaker, vol 81, no 11, pp 40-41, November 1999				magazine	PIMA						
5638		slit;razor;model;measure	02-Jan-03	3	Meehan, RR and Kumar, J. and Earl, M. and Svenson, E and Burns, SJ	The role of blade sharpeness in cutting instabilities of polyethylene terephthalate	J of Materials Science Letters, vol 18, no 2, p 93-95, 1999.	4			magazine	J Materials Science	Univ of Rochester	BladeSharpCutPET	SlitScan	doc and pdf	25-Dec-09	
5637		slit;razor;model;measure	01-Jun-98	7	Meehan, Rr. R. and Burns, S. J.	Mechanics of Slitting and Cutting Webs	Experimental Mechanics, vol 32, no 2, pp 103-109, June 1998	4			magazine	Experimental Mechanics	Univ of Rochester	MechSlitCutWeb	SlitScan	doc and pdf	25-Dec-09	
1225	o	team	24-Oct-93	2	Meeks, R. N.	High Performance Work Team Operations: Successes and Opportunities	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp pp 371-372, Oct 24-27 1993				conference	TAPPI						
1226		tension;profile;measure	01-Jan-83	3	Meinander, S. and Marttinen, T.	Measuring Web Tension Using Contactless Tension Meter	Technical Research Center of Finland, Graphics Arts Laboratory, vol 11, no 1, pp 34-36, 1983											
1227		slit;ceramic	01-Feb-91		Mellor, A. and Winter, A.G.	Ceramic Knives for Winders	Wochembl. Papierfabr., Feb 1991											
1228		wind;film;core	01-Dec-90		Melton, E.	Film Core Choice can Reduce Costs, Waste	Paper, Film & Foil Converter, vol 64, no 12, Dec 1990				magazine	Paper Film Foil Converter						
3690		roller;nip;crown	01-Mar-09	3	Menges, Mathew	Roller Crowning	Paper, Film & Foil Converter, vol 83, no 3, pp 44-47, March 2009	2	http://pffc-online.com/web_handling/main/paper_crowning_benefits/	A crown is a shape or diameter profile necessary to compensate for deflection and obtain uniform nip pressure distribution	magazine	Paper Film Foil Converter	Menges Roller					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5929		roller;heat_transfer;maintenance	01-Apr-10	2	Menges, Matthew	Replace or Refinish	Paper, Film & Foil Converter, vol 84, no 4, pp 36-37, Apr 2010	2	http://login.pffc-online.com/wall.aspx?ERIGHTS_TARGET=http%3A%2F%2Fpffc-online.com%2Fweb_handling%2F0401-roller-refurbishing_report%2F	Can the roll be repaired or refurbished, or is it necessary to have a new one fabricated? If you deal with an expert, and your damaged roll is not a "basket case," there	magazine	Paper Film Foil Converter	Menges Roller Co					
9913		rubber;cover;hardness;roller	01-Jan-12	2	Menges, Matthew	Seamless roll coverings for coating, cast film production	Converting Quarterly, qtr 13, 2012	3			magazine	AIMCAL	Menges Roller Co					
9936		heat-transfer;spiral;double-shell;rollers	01-May-13	4	Menges,Matthew	Hybrid heat-transfer rolls and corrosion damage boost thermal conductivity	Converting Quarterly, qtr 2, 2013	3			magazine	AIMCAL	Menges Roller Co					
1229	o	roll;clamps;sensor;control	24-Oct-93	8	Merin, P.	How Mechatronic Engineering Led to Intelligent Paper Roll Clamps	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 63-70, Oct 24-27 1993	5	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5578&DID=523511	new generation of computer-enhanced, paper roll clamps is the Auramo "intelligent" clamps	conference	TAPPI						
5504		measure;online;caliper;	01-Feb-73	4	Merricks, James A. and Massey, W.M. Jr.	Utilization of Dynamic Measurement of Caliper on a Paper Machine	Tappi J., vol 56, no 2, pp 83-86, Feb 1973	2			magazine	TAPPI	Federal Paper Board	DynamicMeasureCaliper	MeasurementScan	doc and pdf	29-Dec-09	
1231		ultrasonic;bonding;nonwovens	01-Jun-94	5	Metcalf, Warren F. and Partenio, Annette C.	The Effects of Improved Ultrasonic Technology on Continuous Bonding of Nonwoven Fabrics	Tappi J., vol 77, no 6, pp 211-215, June 1994	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5526&DID=523266	ultrasonic power supply technology which can greatly improve the quality of ultrasonically bonded nonwoven fabrics.	magazine	TAPPI						
1232		wrinkle;anisotropy	01-May-90		Metzinger, Kurt E.	The Effect of Material Anisotropy on Web Wrinkling	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1233	o	wind;model;wire;bobbin	19-May-91	10	Metzinger, Kurt E. and Attaway, Steve and Mello, Frank	Bobbin Stresses Generated by Wire Winding	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 113-122, May19-22 1991					WHRC	WHRC					
9813		adhesive	10-Jun-12		Meyer, Andreas	Dual Curing Adhesives for Flexible Lamination	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	HB Fuller					
2870		solventless;laminate	26-Aug-01		Meyer, William	Solventless Laminating Today	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Diego, Aug 26-30, 2001	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5114&DID=524880	Solventless laminating has been used in Europe extensively since the 1970's for both film-to-film laminations and also film-to-foil and film-to-paper laminations	conference	TAPPI						
3562	o	unwind;splice;accumulator;design	06-May-08	1	Michal, Neal	Practical Considerations for Zero Speed Splice Unwinds	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	Kimberly-Clark					
3710	o	accumulator, tension	07-Jun-09	15	Michal, Neal	Web Tension in an Accumulator and Industry Needs for the Future	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC	Kimberly-Clark					
14160		wind;model;stress	30-May-16	1	Michal, Neal	Practical Methods to Improve Wound Roll Quality	AIMCAL Europe Web Conf, Dresden, May 30 - June 2, 2016	4			conference	AIMCAL	Kimberly-Clark					
14143		wind;model;stress	09-Sep-16	1	Michal, Neal	Practical Methods to Improve Wound Roll Quality	AIMCAL Fall US Web Conf, Memphis, Sept 9-12, 2016	4			conference	AIMCAL	Kimberly-Clark					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6054	o	wrinkling;accumulators	13-Jun-11		Michal, Neil and Kandadai, B.	Analysis of Web Wrinkling in Accumulators	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15	5			conference	WHRC	Kimberly-Clark					
1234		defect;reject;quality;winder;maintenance;education	01-Jun-79	3	Michaud, M.G.	A Team Approach to Defective Roll Reduction at the Winders	Pulp & Paper Canada, no 6, pp144-146				magazine	Pulp and Paper Canada						
10058		dimensional_stability;stress;lamination	08-Jun-14		Miesbauer, Oliver	Studies of the Dimensional Stability of Polymeric Films during Coating Processes	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014	5			conference	AIMCAL	Fraunhofer-Institut fur Verfahrenstechnik und Verpacking IVV					
1235		web;wrinkle	01-Sep-74		Mikulas, M.M.	Behavior of a Flat Stretched Membrane Wrinkled by the Rotation	NASA TN D-2456, Sep1974											
1236		absorbency;measure	01-Sep-91		Miller, B. et al	Method for Measuring Absolute Absorbency Rates	Nonwovens Research, Fall 1991											
1237	o	recycle;standard;label	18-Oct-92	14	Miller, E.	Final Report on Recycled Paper Definitions, Standards, Measurement and Lbeling Guidelines	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 169-182, Oct 18-21 1992	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5630&DID=524408	Recycling Advisory Council (RAC) was established by the National Recycling Coalition (NRC) and the U. S. Environmental Protection Agency (EPA) in 1989. The RAC set up the Recycled Paper Committee	conference	TAPPI						
5505		measure;online;caliper;	01-Feb-73	3	Miller, Larry A. and Springer, Galen	A New On-Line Caliper Gage	Tappi J., vol 56, no 2, pp 45-47, Feb 1973	2			magazine	TAPPI	Gaylen Springer	OnlineCaliperGage	MeasurementScan	doc and pdf	29-Dec-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6023		coating;defect	01-Jan-11	1	Miller, Mark	Defects - Finding the cause	Paper, Film & Foil Converter, vol 85, no 1, pp 12, Jan 2011	1	http://pffc-online.com/coat_lam/finding-coating-defects-causes-0111/	the interactions and the limitations of the equipment and materials — the more you will be able to directly influence defect reduction and product yield.	magazine	Paper Film Foil Converter	Self					
6081		paper;curl;steam	01-Apr-11	1	Miller, Mark	Off-line Charging Measurements	Paper, Film & Foil Converter, vol 84, no 3, pp 10, Mar 2011	3			magazine	Paper Film Foil Converter	Self					
6084		slot_die;lip;speed;defect	01-May-11	1	Miller, Mark	Open Up the Coating Process Window	Paper, Film & Foil Converter, vol 84, no 5, pp 8, May 2011	4	http://pffc-online.com/coat_lam/open-coating-process-0501/	a graph will provide you with an understanding of a process in which the coating can survive. This map of the process is the coating window	magazine	Paper Film Foil Converter	Self					
6121		coating;printing;pattern;rfid	01-Jun-11	1	Miller, Mark	Coating, Not Printing	Paper, Film & Foil Converter, vol 84, no 6, pp 12, Jun 2011	3	http://pffc-online.com/coat_lam/coating-not-printing-0601/	battery industry, the packaging industry, or the publishing industry, you have come across these two words: coating and printing.	magazine	Paper Film Foil Converter	Self					
2806		rubber;roller;hardness;modulus	01-Jan-64	12	Miller, R.D.W	Variations of Line pRessure and Rolling Speed with Indentation of Covered Rollers	British J of Applied Physics, vol 15, pp 1423-1435, 1964											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1239			01-Dec-82	4	Miller, R.K. et al	An Algorithm for Finite Element Analysis of Partly Wrinkled Membrane	AIAA Journal, pp 1761-1763											
1240		basis_weight;control;quality	01-Jun-92		Millette, S.	Machine Direction Weight Control has Limited Impact on Sheet Quality	American Papermaker, Jun 1992				magazine	American Papermaker						
1241		rebuild;time cycle;production;maintenance	22-Oct-79	2	Minder, Donald C.	Modifications to Converting Winders to Increase Efficiency	TAPPI Finishing and Converting Conf. Proc., 1979				conference	TAPPI						
1242		board;property;friction;traction	01-Dec-90		Minoue et al	Static Friction Properties of Linerboard	Tappi J., vol 73, no 12, Dec 1990				magazine	TAPPI						
1243		metallize	02-Oct-95		Mitchell, Rick	Influencing Barrier Properties by Optimizing Aluminum Wire and Evaporation Boats	AIMCAL 1995 Fall Tech. Conf. Proc., Atlanta, Oct 2-4, 1995					AIMCAL						
1244		convert;tissue	01-Jun-90		Miyago, K.	Household Tissue Processing Technology	Japan J. Paper Technology, Jun 1990				magazine							
5804		wind;measure;stress;xray	01-Oct-88	6	Miyanishi, Takanori and Iida, Kiyoaki and Sotobayshi, Hotoshi	Computerized tomography of a paper roll	Tappi J, pp 167, Oct 1988	3			magazine	TAPPI	Jujo Paper	ComputerTomography Roll	WindMeasureScan	doc and pdf	22-Sep-09	
1246		web_break;runnability;measurement;model	01-Sep-98	8	Miyanishi, Takanori and Shimada, Hirotaka	Using Neural Networks to diagnose web breaks on a newsprint paper machine	Tappi J., vol 81, no 9, pp 163-170, Sept 1998	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5341&DID=511440	We applied artificial neural networks to the diagnosis of paper web breaks in a commercial newsprint paper machine. On-line wet end sensors such as zeta potential	magazine	TAPPI	Jujo Paper					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2824	o	web;twist	11-Jun-01	10	Mockensturm, E.M. and Mote, C.D. Jr.	Instabilities in Twisted Webs	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC						
1247		vibration	01-Nov-70	6	Mohle, H. and Buschmann, G. and Muller, G.	Vibration on Paper Winders	Papier, vol 24, no 11, pp 845-50				magazine							
5506		measure;optical;defect;detection	01-Sep-96	8	Moilanan, Perti and Linqdvist, Ulf	Web Defect Inspection in the Printing Press	Tappi J., vol 79, no 9, pp 88-94, September 1996	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4736&DID=518062	breaks have been found to appear first in the weak areas of paper. But in earlier days, printing presses had no equipment to detect and identify the weak areas of paper	magazine	TAPPI	VTT Information Technology	WebDefect Inspection	MeasurementScan	doc and pdf	30-Dec-09	
14109	o	winding;model;hardness;measurement;	07-Jun-15		Mollamahmutgolu, C and Bulut O and Adari, S and Good, James K	The Coupling of Winding Models and Roll Quality Measurements	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	university					
14114	o	wind;model;temperature	07-Jun-15		Mollamahmutoglu, C and Good, James K	An Axisymmetric Transient Thermo-Elastic Winding Model	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	university					

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9951	o	wind;compress;newsprint	02-Jun-13	21	Mollamahmutoglu, C. and Ganapathi, S and Good, JK	Surface compression of wound rolls	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	3			conference	WHRC	WHRC					
3705	o	wind;model	07-Jun-09	25	Mollamahmutoglu, C. and Good, J. Keith	Axisymmetric Wound Roll Models	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC	WHRC					
3703	o	wind;model	07-Jun-09	26	Mollamahmutoglu, C. and Good, J. Keith	Large Deformation Winding Models	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC	WHRC					
5830		wind;stress;model;centerwind	01-Aug-75	4	Monk, D.W. and Lautner, W.K. and McMullen, J.F.	Internal Stresses Within Rolls of Cellophane	Tappi J., vol 58, no 8, pp 152-155, Aug 1975	1			magazine	TAPPI	Olin	InternalStressesCellophane	WindModelScan	doc and pdf	28-Nov-09	
5442		rubber;roller;crown;design;deflection;manufacture;book	14-Jun-09	230	monograph	The Rubber Roller Group Handbook - A guide to Elastomeric Roll Covering from Materials to Market	Rubber Roller Group	10			Book	Rubber Roller Group	Rubber Roller Group	RubberRollerHandbook99	BookScan	doc and pdf	21-Sep-09	
5712		web_handling;winding;seminar;school	06-Nov-94	276	monograph	An Applications Seminar on Web Handling	WHRC course notes	10			CourseNotes	WHRC	WHRC	WebSemWHRC94	WebSchools	doc and pdf	07-Oct-09	
5455		Coating;Drying;Web_Handling;Roller	14-Mar-03	343	monograph	CEMA Coating and Laminating Seminar	CEMA Coating and Laminating Seminar Shortcourse Notes	10			shortcourse	CEMA		CtgCema03	CoatingSchools	doc and pdf		

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5456		Coating;Drying;Web_Handling;Roller	01-Jan-05	400	monograph	Coating	Coating Shortcourse Notes by Wolfgang Schaps and others of Faustel	10			shortcourse	Faustel?		CtgFaustel	CoatingSchools	doc and pdf	23-Oct-09	Shortcourse taught by Wolfgan Schaps, Don Guenther, Chuck Lincoln and others primarily for Center For Advanced Professional Development
5454		coating;laminating;surface-treat;safety;winding;guiding;spreading;wrinkling;web_handling	17-Apr-05	286	monograph	CEMA Coating and Laminating Shortcourse	CEMA Coating and Laminating Seminar Shortcourse Notes	10			shortcourse	CEMA		CtgCema05	CoatingSchools	doc and pdf	01-Oct-09	
3382		roll_handling	01-Jun-06	3	Montague, Dick (Custom Engineered Systems)	Thorough Assessment is Key to Automated Roll Handling Success	Pulp & Paper, vol 80, no 6, pp 46-48, June 2006				magazine	Pulp and Paper						
1250		runnability;winder;control;pressroom;roll;break;slitter;clutch;papermaking	01-Nov-85	3	Montalvo, William W.	Unraveling Web Tension Control	Power Transmission Design, vol 27, no 1, pp 35-37, Nov 1985						Montalvo					
1251		speed;control	01-Apr-73	7	Moore, A. W.	Phase-Locked Loops for Motor-Speed Control	IEEE Spectrum, pp 61-67, Apr 1973											
1252	o	roller;tension;traction;groove;model	01-Aug-93	2	Moore, Edward J.	Traction Equation for Grooved Rolls	Converting Magazine, pp 184&186, Aug 93				magazine	Converting Magazine	self					
5704		traction;calculation	01-Aug-93	2	Moore, Edward J.	Questions and Answers on Grooved Rolls	Converting Magazine, pp 184&186, Aug 93	2			magazine	Converting Magazine	self	QAgrooved Rolls	WebHandlingScan	doc and pdf	18-Dec-09	

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1253	o	roll;handling;model	06-Oct-91	10	Moore, J. Ross and Stephens, B J	Design of Ramps for Paper Roll Handling	TAPPI Finishing and Converting Conf. Proc., Houston, pp 51-60, Oct 6-10 1991	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5678&DID=516372	paper discusses ramp uses and applications, materials of construction, and safety considerations. The physics of roll movement is also examined	conference	TAPPI	Rust Engineering					
1254		roll;handling;safety	01-Nov-91		Moore, J. Ross and Stephens, B J	Ramp Design for Roll Handling Systems	Tappi J., vol 74, no 11, Nov 1991	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4782&DID=519339	paper discusses ramp uses and applications, materials of construction, and safety considerations. The physics of roll movement is also examined	magazine	TAPPI	Rust Engineering					
1255	o	roll;ramp;design	24-Oct-93	10	Moore, J. Ross and Stephens, B J	Ramp Design, Part II	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 41-50, Oct 24-27 1993	5	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5578&DID=523510	mathematical model, developed by the authors, that provided a means for the prediction of paper roll velocity and displacement down a given incline	conference	TAPPI	Rust Engineering					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5759		wind;roll_handling;ramp	01-May-94	6	Moore, J. Ross and Stephens, B J	Ramp design II	TAPPI J, vol 77, no 5, pp 195-200, May 1994	5	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4795&DID=520569	mathematical model, developed by the authors, that provided a means for the prediction of paper roll velocity and displacement down a given incline	magazine	TAPPI	Rust Engineering	RollHandleRampDesign	WindGeneralScan	doc and pdf	06-Nov-09	unique
5581		roller;nip;crown;measurement;profile	01-Apr-97	12	Moore, Robert H	Crowns and Cross-Machine Loading Variations	Tappi J., vol 80, no 4, pp 219-230, April 1997	5	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4856&DID=518937	Paper-makers and suppliers have developed both theoretical techniques to predict what the crowns should be and experimental methods that measure what the resulting nip widths and pressure profiles actually are	magazine	TAPPI	Stowe Woodward	CrownsCDIoading	RollerScan	doc and pdf	18-Dec-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2562		coater;roller;cover	01-May-99	4	Moore, Robert H.	Influence of Roll Covers in Film Transfer Size Presses and Coaters	Tappi J., vol 82, no 5, pp 111-114, May 1999	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4866&DID=519032	examines the various roll cover types used in blade metering and rod metering size presses for starch sizing and coating applications. It reviews many important cover properties including cover hardness	magazine	TAPPI	Stowe Woodward					
1258	o	calender;cover;nip;fem	01-Mar-94	6	Moore, Robert H. and Moschel, Charles C.	A Tool for the Engineered Nip	Tappi J., vol 77, no 3, pp 117-122, Mar 1994	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4790&DID=520751	thermoviscoelastic finite element program called "NipCalc" to solve the coupled problem of stress and heat generation in roll covers. The program predicts the pressure impulse experienced by the paper in addition to the heat buildup	magazine	TAPPI	Stowe Woodward					
1259	o	flutter	01-Jun-97		Moretti, P. and Chang, Y.	Web Flutter at Circular-Tube Air-Turn Bars	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2845	o	lateral;model;guide;air_float_oven	11-Jun-01	10	Moretti, Peter M.	Lateral Deflection of Webs in Air-Floatation Ovens	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC	WHRC					
1260	o	air_bar;oven;lateral;stability	18-Jun-95	10	Moretti, Peter M. and Chang, Young Bae	Coupling Between Out-of-Plane Displacement and Lateral Stability of Webs in Air-Support Ovens	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC	WHRC					
5507		measure;stack;caliper;	01-Dec-92	3	Morgan, Vincent T.	Measuring the Thickness of Stacked Sheets of Paper	Tappi J., vol 75, no 12, pp 118-120, Dec 1992	3	http://www.tappi.org/s_tappi/sec publications.asp?CID=4817&DID=519724	the effects of several test parameters on mean sheet thickness as determined by measuring stacked sheets with a parallel faced dead-weight micrometer	magazine	TAPPI	CSIRO Australia	ThicknessStackPaper	MeasurementScan	doc and pdf	29-Dec-09	
1262		caliper;creep;measure;capacitor;tissue	01-Jul-93	3	Morgan, Vincent T.	Compressive Creep of Stacked Sheets of Paper	Tappi J., vol 76, no 7, pp 208-210, July 1993	3	http://www.tappi.org/s_tappi/sec publications.asp?CID=4806&DID=520236	Compressive creep affects the capacitance of compressed layers of oil-impregnated capacitor tissue. Compressive creep was measured in stacks of capacitor tissue	magazine	TAPPI						
1263		dryer;roller;vibration	01-Jan-95	2	Morin, Eric	Avoiding the Dryer Bottleneck	American Papermaker, pp 40-41, January 1995				magazine	American Papermaker						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2876		curl;blown;film	26-Aug-01		Morris, Barry	Reducing Curl in Multilayer Blown Film, Part II: Application of Predictive Modeling to a Barrier Cereal Liner Film	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Diego, Aug 26-30, 2001	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5114&DID=512711	A quantitative model is developed for predicting curl based on continuum mechanics: curl is the result of differential shrinkage between layers during quenching	conference	TAPPI						
2875		curl;blown;film	26-Aug-01		Morris, Barry	Reducing Curl in Multilayer Blown Film, Part I: Experimental	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Diego, Aug 26-30, 2001	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5114&DID=512710	Curl is particularly acute in asymmetric barrier blown films. Experimental results from simple two- and three-layer structures	conference	TAPPI						
1264		metallize	04-Oct-94	20	Morris, Michael	Effects of Evaporation Boats on Metallized Substrates	AIMCAL 1994 Fall Tech. Conf. Proc., Atlanta, pp 127-146, Oct 4-5, 1994					AIMCAL						
1265		newsprint;heat;curl	01-Aug-98	4	Morris, Victoria A.P. and Sampson, William W.	An investigation of heat curl in newsprint	Tappi J., vol 81, no 8, pp 191-194, August 1998	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4730&DID=518848	tendency of the sheet to curl is shown to be dependent on the z-directional distribution of in-plane elastic modulus	magazine	TAPPI						
9797		flat_panel;vacuum_dep	10-Jun-12		Morrison, Neil	Roll-to-Roll Manufacturing of Advanced Touch Panel Devices	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Applied Materials					
9796		flat_panel;vacume_dep	10-Jun-12		Morrison, Neil	Roll-to-Roll Manufacturing of Next Generation Displace Devices	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Applied Materials					

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1266			01-Aug-62	16	Morrow, Harry C.	Centering Moving Webs	Automation, pp 2-17, Aug/Sep 1962											
1267			11-Jul-88		Morse, P.M. et al	Theoretical Acoustics												
1268		winder;slitter;position;control	10-Aug-88	4	Mortenson, Ronald J.	Automatic Winder Slitter Positioning Using a Programmable Logic	Tappi J., vol 71, no 8, pp 104-107, Aug 1988				magazine	TAPPI						
2921	o	roller;inspection;maintenance	02-Dec-01	10	Moskal, Max D.	Decision Tree Logic for Pressure Re-Rating Paper Machine Dryers	TAPPI Engineering and Finishing and Converting Conf. Proc., San Antonio, December 2-6, 2001	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5098&DID=524944	the complex steps in this procedure involve interpretation of the ASME Boiler and Pressure Vessel Code and the National Board Inspection Code, approvals by insurance carriers and jurisdictional authorities, as well as careful inspection	conference	TAPPI						
10009		laminator;curl;temperature;moisture	01-Dec-13	2	Mount, Eldridge M	Why does laminate curling change at different atmospheric temperatures	Converting Quarterly, qtr 4, 2013	3			magazine	AIMCAL	self					
6133		laminate;peel;bond;test	24-Oct-07		Mount, Eldridge M.	Review of Metallized Film Adhesion Testing: Test Methods and Interpretation of Results	AIMCAL Fall Technical Conf, Proc, Oct 24-27, 2004	4			conference	AIMCAL	self					
6129		laminate;peel;bond;test	01-Sep-11	6	Mount, Eldridge M.	Understanding peel strength in relation to substrate performance in various lamination methods	Converting Quarterly, qtr 3, 2011	4			magazine	AIMCAL	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6138		film;cof;slip;wind;air_entrain	01-Nov-11	1	Mount, Eldridge M.	How can you control film-to-film separation by formulation choices	Converting Quarterly, qtr 4, 2011	4			magazine	AIMCAL	self					
10002		moisture;film;barrier	01-Aug-13	2	Mount, Eldridge M.	How does moisture affect substrates	Converting Quarterly, qtr 3, 2013	4			magazine	AIMCAL	self					
6131		laminate;peel;bond;test	01-Sep-11		Mount, Eldridge M. and Biship, Charles A.	AIMCAL Procedure for Qualitatively Determining the Metal Adhesion of Metallized Films	TP-105-92	4			standard	AIMCAL	ASTM					
2750	o	troubleshooting;film;defect	16-Oct-00		Mount, Eldridge M. III	Troubleshooting Metallized Film Defects	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL	Self					
2780	o	vacume;metalize;roll_od;wrinkle;block	01-Jan-01	1	Mount, Eldridge M. III	How does vacuum-chamber pressure affect my metallized film properties?	Converting Magazine, vol 19, no 1, pp 24, January 2001	4	http://www.convertingmagazine.com/article/309224-Q_How_does_vacuum_chamber_pressure_affect_my_metallized_film_properties_.php	What happens to the evaporation process as the chamber pressure rises? In an early study by Robert Szoke, to highlight some of the effects on OD uniformity and gas barrier	magazine	Converting Magazine	Self					
2966	o	vacume;metalize;roll_od;wrinkle;block	01-Sep-02	2	Mount, Eldridge M. III	What is the metal layer of metallized films really like?	Converting Magazine, vol 20, no 9, pp 22-23, September 2002	4	http://www.convertingmagazine.com/article/310351-What_is_the_metal_layer_of_metallized_films_really_like_.php	When we look at a metallized film, we see a bright shiny reflective surface, which seems very uniform. But what is the aluminum layer really like? How thick is it, and what is its real structure?	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2987	o	material;properties	21-Oct-02		Mount, Eldridge M. III	Substrate Requirements for Barrier and Decorative Packaging	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL	Self					
3057		polymer;stress-strain;orient	01-May-03	2	Mount, Eldridge M. III	Fit for Use	Paper, Film & Foil Converter, vol 77, no 5, pp 38-40, May 2003	3	http://pffc-online.com/materials/paper_fit/	These principle attributes are strength, thermal stability, permeability, specific optical properties, large surface area per pound, and special surface properties.	magazine	Paper Film Foil Converter	Self					
3178	o	food_packaging;barrier;metalize;film;design	01-Mar-04	3	Mount, Eldridge M. III	Metallized films for Food Packaging	Converting Magazine, vol 22, no 3, pp 28-30, March 2004	4	http://www.convertingmagazine.com/article/308670-Metallized_films_for_F_D_packaging.php	Choosing the most appropriate metallized-film type can be determined from knowledge of product failure modes (stale, rancid or loss of flavor or nutritive value) and barrier-property profiles of the various metallized films.	magazine	Converting Magazine	Self					
3229	o	metallizing	29-Aug-04		Mount, Eldridge M. III	The Basics of Metallizing Thin Films for High Barrier Packaging	TAPPI PLACE Conf, Indianapolis, August 29, 2004				conference	TAPPI	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3355		adhesion;peel;test	01-Nov-05	3	Mount, Eldridge M. III	Adhesion Testing	Paper, Film & Foil Converter, vol 79, no 10, pp 66-68, Nov 2005	3	http://pffc-online.com/mag/measuring_force_1105/	Measuring adhesion is a thankless task. The values are never high enough—and nobody is quite sure what an acceptable value is	magazine	Paper Film Foil Converter	Self					
3374		corona;surface_treat	01-Feb-06	5	Mount, Eldridge M. III	Cut with Glass	Paper, Film & Foil Converter, vol 80, no 3, pp 34-38, Mar 2006				magazine	Paper Film Foil Converter	Self					
10031		vacume;metalize;roll_od;wrinkle;block	01-May-14	1	Mount, Eldridge M. III	What factors should we consider when substitituting film substrates	Converting Quarterly, qtr 2, 2014	4			magazine	Converting Magazine	Self					
3097		roller;air_entrainment;porous	01-Jan-00	9	Muftu, S and Altan, M.C.	Mechanics of a Porous Web Moving Over a Cylindrical Guide	Transactions ASME, J of Tribology, pp 418-426, 2000.											
3306	o	air_turn	05-Jun-05	10	Muftu, S.	The Mechanics of a Thin Web Wrapped Helically around a Turn Bar	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC						
2617		baggy_web;tension;air_float	01-Jan-96	8	Muftu, S. and Benson, R.C.	A Study of the Cross-Width Variations in the Two-Dimensional Foil Bearing problem	Trans ASME J. of Tibology, v 118, pp 407-414, 1996.											
3103		air_bar;model	01-Jan-99	30	Muftu, S. and Cole, Kevin A.	The Fluid Structure Interaction in Supporting a Thing Flexible Cylindrical Web With an air Cushion	J Fluids Structure, vol 13, pp 681-708, 1999.				magazine							

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2612	o	air_bar;model	06-Jun-99	18	Muftu, S. and Cole, Kevin A.	Mechanics of a Cylindrical Flexible Web Floating over a Air-Reverser	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC						
1269		flutter	01-Jan-74	10	Mujumdar, A.S.	Sheet Flutter in High Speed Paper Dryers	Indian Pulp and Paper Technical Association, Vol 11, no 2, pp 93-102, 1974											
1270		wind	01-Jan-92		Mulfarth, W.	The Rotary Winding System	Pap. Kunstst. Verarb., Jan 1992											
2697		wind;core_burst;crepe_wrinkle;defect;test	01-Apr-00	4	Muller, Georg and Schonmeier, Herbert	Prevention of Core Bursts, Creping and Ribbons on Jumbo Rolls	Tappi J, vol 83, no 4, pp 52-54, April 2000.	3	Rolls of light weight coated (LWC) and supercalendered (SC) rotogravure papers for printing are becoming ever larger and heavier	Rolls of light weight coated (LWC) and supercalendered (SC) rotogravure papers for printing are becoming ever larger and heavier	magazine	TAPPI						
1271			01-Jan-34		Muller, Rudolf	Roll Shifting Device	U.S. Patent #1,932,685 (1934)				patent							
1272		wind;2drum	01-Oct-89		Mullinder, J.	Life in the Two-Drum Yet	Pulp & Paper, vol 63, no 10, Oct 1989				magazine	Pulp and Paper						
1273		paper;test;automation	01-Apr-90		Mullinder, J.	Automatic Paper Testing	Pulp & Paper, vol 64, no 4, Apr 1990				magazine	Pulp and Paper						
5760		wind;core;core shaft;unwind	01-Oct-09	16	multi	Core / Shaft / Unwind	Paper Film Foil Convert Magazine Reprint, Feb 1996	2			reprint	Paper Film Foil Converter	Paper Film Foil Converter Magazine	CoreShaft Unwind	WindGeneralScan	doc and pdf	24-Oct-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1274	o	web;sensor;defect;dectection;consortium	01-Jul-91	200	Muly, Emil C.	The Measurement and Control Engineering Center	Univ. of Tennesse, Knoxville, Research Center Proposal											
1275		calender;vibration	01-Jul-69	7	Mumme, K.I. and Tuttle, T.L.	Calender Vibration - A simulation Study and a Cure	TAPPI, vol 52, no 7, pp 1356-1362, July 1969				magazine	TAPPI						
1277		calender;winder	01-Oct-79		Munch, E. E.	Rewind Systems on Supercalenders Problems and Solutions	Paper Age, vol 15, no 10, pp 28-30				magazine	Paper Age						
1276		winder	15-May-79		Munch, E. E. et al	Sensomat a New Winding System in the Supercalender	Wochbl Papierfabr, vol107, no 9, pp 292 etc											
5725		wind;density;measure;patent	17-Jun-86	8	Murdoch, James C. and Klassen, Clarence J.	Apparatus for Determining Finished Roll Density in a Mill	U.S. Patent #4,594,880. June 17, 1986.	3			patent	USPTO	General Electric	DensityPatentGE	WindDensityScan	doc and pdf	07-Oct-09	
1279		film;winding;*	16-May-88	36	Murray, R.A.	Plastic Sheet Winding	Monsanto Chemical Company. Plastic Sheet Winding. Springfield											
2622		mfg;optimization;trim;orders	01-Jul-99	6	Murthy, Sesh et al	Enhancing the Decision-Making Process for Paper Mill Schedulers	Tappi J., vol 82, no 7, pp 42-47, July 1999	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4861&DID=518234	A new decision-support system for scheduling paper manufacturing and distribution considers multiple obectives in providing alternatives	magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2641	o	scheduling;trim;waste	03-Oct-99	12	Murthy, Sesh et al	Enhancing the Decision Making Process for Paper Mill Scheduler	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 7-18, October 3-7, 1999	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5255&DID=509139	Scheduling production and distribution of paper is an extremely complex task requiring the consideration of numerous constraints and objectives	conference	TAPPI						
1280		register;coat	01-Jul-90		Mushel, C.M.	Coating Register	Paper, Film & Foil Converter, vol 64, no 7, Jul 1990				magazine	Paper Film Foil Converter						
1281		dc;drive;computer;control	06-Oct-85	6	Muszynski, Jerome D.	Microprocessor Control of Center-Driven Unwinds and Rewinds	TAPPI Finishing and Converting Conf. Proc., 1985				conference	TAPPI						
2970	o	coating;machine;application	21-Oct-02		Myer, William R.	Coating Systems	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL	Geometric Machine					
3255	o	thin;gage;speed;design	24-Oct-04		Myer, William R.	Thinner and Faster	AIMCAL Fall Tech Conf, Charleston, October 24-27, 2004					AIMCAL	Geometric Machine					
2859		cast;film	26-Aug-01		Myers, Audrey	Fundamentals of Cast Film Equipment and its Potential Effects on Film Properties	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Diego, Aug 26-30, 2001	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5151&DID=523205	This paper will discuss the equipment used in the creation of cast film, from resin handling to auto handling and how changes in the equipment parameters affect the finished properties of the film	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1282		winder	01-Nov-95	2	Mykytiuk, Andrew R.	Slitters Are Finally Getting the Respect They Deserve	Paper, Film & Foil Converter, vol 69, no 11, pp 30-31, November 1995				magazine	Paper Film Foil Converter	Paper Film Foil Converter					
1283		unwind;brake	01-Jan-96	1	Mykytiuk, Andrew R.	Brakes and Clutches improve to meet industry demands	Paper, Film & Foil Converter, vol 70, no 1, pp 30, January 1996				magazine	Paper Film Foil Converter	Paper Film Foil Converter					
1284		drive;ac;dc	01-Jan-96	4	Mykytiuk, Andrew R.	Examiming the Trends in Drives and Motors	Paper, Film & Foil Converter, vol 70, no 1, pp 52-55, January 1996					Paper Film Foil Converter	Paper Film Foil Converter					
5681		tension_control;drive;AC_motor;methodology	01-Jan-96	4	Mykytiuk, Andrew R.	Examiming the Trends in Drives and Motors	Paper, Film & Foil Converter, vol 70, no 1, pp 52-55, January 1996	2			magazine	Paper Film Foil Converter	Paper Film Foil Converter	TrendsDriveMotors	TensionScan	doc and pdf	25-Dec-09	
1285		drive;ac;dc	01-Apr-98	1	Mykytiuk, Andrew R.	Drives and Motors Improve, and Costs Come Down	Paper, Film & Foil Converter, vol 72, no 4, pp 34, April 1998				magazine	Paper Film Foil Converter	Paper Film Foil Converter					
1286		roller;cleaning	01-May-98	1	Mykytiuk, Andrew R.	Roll Cleaning Technology Keeps Pace with Roll Advances	Paper, Film & Foil Converter, vol 72, no 5, pp 31, May 1998				magazine	Paper Film Foil Converter	Paper Film Foil Converter					
2548		roller;release;coating	01-Jun-98	2	Mykytiuk, Andrew R.	High-Tech Coatings Solve a Sticky Problem	Paper, Film & Foil Converter, vol 72, no 6, June 1998				magazine	Paper Film Foil Converter	Paper Film Foil Converter					
1287		wind;shaft	01-Sep-98	1	Mykytiuk, Andrew R.	Today's Shafts are Speeding Up the Converting Process	Paper, Film & Foil Converter, vol 72, no 9, pp 126, September 1998				magazine	Paper Film Foil Converter	Paper Film Foil Converter					
1288		wound_roll;wrapping;film	01-Jan-96	6	Myracle, Don E. and Matics, Daniel A.	Film Roll Wrapping in a US Fine Paper Mill: a case history	Tappi J., vol 79, no 1, pp 231-236, January 1996.	2	http://www.tappi.org/s_tappi/sec publications.asp?CID=4851&DID=518761	film packaging of fine paper rolls has become relatively common In Europe, It has only recently gained acceptance In the U.S. market	magazine	TAPPI						

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1289	o	wound_roll;wrapping	15-Oct-95	6	Myracle, E.D. and Matics, D.A.	Case History: Film Roll Wrapping in a U.S. Fine Paper Mill	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 149-154, Oct 15-18, 1995	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5460&DID=521780	film packaging of fine paper rolls has become relatively common In Europe, It has only recently gained acceptance In the U.S. market	conference	TAPPI						
3570	o	control;data-acuisition;troubleshooting	06-May-08	1	Nader, Pierre	Equipment Optimization - A Comprehensive Approach	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	SPN Consultants					
1290		roller;design	01-Feb-97	3	Nadolney, Daniel B.	Taming the Wild Web Part I	Paper Film Foil Converter, vol 71, no 2, pp 35-37, February 1997				magazine	Paper Film Foil Converter						
1291		roller;design	01-Mar-97	2	Nadolney, Daniel B.	Taming the Wild Web Part I	Paper Film Foil Converter, vol 71, no 3, pp 48-49, March 1997				magazine	Paper Film Foil Converter						
9802			10-Jun-12		Nagy, Akos	EXTENDO - Multi-layer High Barrier Packaging Reduces Environmental Impact	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Tagleef Industries					
1292		tension;control	01-Jan-93		Nakajima, K. and Kuribayashi, K.	Problem Concerning Detection Devices in Speed and Tension Control of Running Yarn and Fabric	J. of Textile Machinery Society of Japan, vol 19, no 1, 1993				magazine							
1293		shear;strength;property;paper physics;anisotropy;analytical;tes	01-May-86	5	Nakao, Tetsuya and Kijmura, Minoru	Measurement of Dynamic Young's Modulus of Paperboard	Tappi J., vol 69, no 5, pp 129-133, May 1986				magazine	TAPPI						
1294	o	wind;nip;stress;measure;photoelasticity	01-May-91	50	Nandukumar, Vaidyanathan	An Investigation of the Nip Induced Tension Mechanism using Photoelasticity	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1295		infrared;dry;film	04-Oct-94	18	Narang, Robert	Infrared for Thin Film Applications	AIMCAL 1994 Fall Tech. Conf. Proc., Atlanta, pp 201-219, Oct 4-5, 1994					AIMCAL						
3162		laser;speed;footage;sensor;reel;turnup;break	01-Dec-03	2	Nawfel, Peter	Laser based, noncontact speed sensor reduces breaks on high speed unwind	Paper Age, pp24-25, Nov/Dec, 2003.				magazine	Paper Age						
1296		nip;contact;vibration	01-Mar-72		Nayak, P. Ranganath	Contact Vibrations	J. of Sound and Vibration, vol 22, no 3, pp 297-322, 1972				magazine							
1297		nonwoven;liquid;absorptivity	01-Dec-94	7	Nederveen, Cornelis J.	Absorption of Liquid in Highly Porous Nonwovens	Tappi J., vol 77, no 12, pp 174-180, December 1994	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4802&DID=520398	rise of a liquid in a highly porous nonwoven structure can be described by a modified form of the well-known Lucus-Washburn equation for liquid rise in a cupillary. Two fundamental parameters of the structure, the permeability and the wetting tension	magazine	TAPPI						
5466		coating;dryer;design;sizing	27-Mar-96	41	Nennig, James	Selecting the Correct Dryer for Your Appplication	CEMA Shortcourse The Coating and Lamination Process Substrates, Coatings and Equipment, March 27, 1996	3			shortcourse	CEMA	Grace TEC	DryerApplicationNennig	CtgCema96	doc and pdf	01-Oct-09	
2757	o	air_float;dryer	16-Oct-00		Nennig, Jim	Optimization of a Flotation Dryer System	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL						

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1298		scanner;measure;basis_wgt;caliper	01-Oct-97	14	Nesic, Zoran and Davies, Michael and Dumont, Guy	Paper machine data analysis and compression using wavelets	Tappi J., vol 80, no 10, pp 191-204, October 1997	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4864&DID=518731	paper machine process data using dis-crete wavelet transforms.The tech-niques have been adapted from a general signal analysis theory	magazine	TAPPI						
2972	o	gravure;coating	21-Oct-02		Netz, David	Introduction to Gravure Coating	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL	Bachoen+Meier					
3204	o	wind	25-Oct-04	1	Netz, David	Thin Film Winders	AIMCAL Fall Tech Conf, Charleston SC, Oct 24-27, 2004					AIMCAL	Kroenert					
9830		vacuum_dep	10-Jun-12		Ngoumeni Yappi, Dr Rodrigue	A New Generation of Corrosion Resistant Evaporator Boats	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Kennametal AMSG GmbH					
9929		trim_handling;slitter;pneumatic	01-Jan-81	4	Nichol, Alan and Cary, Terry	Trim Handling Systems		3		trim handling recommendations beloit winder engineering	standards	Black Clawson	Black Clawson	TrimHandlingBC	WindGeneralScan	pdf	13-Apr-13	
1299		trim chute;broke;control;air entrainment	22-Oct-79	4	Nichol, Alan J. and Cary, Terry	Trim Handling System	TAPPI Finishing and Converting Conf. Proc., 1979				conference	TAPPI						
3722	o	calender;model	07-Jun-09	25	Niebuhr, V. and Desch, Michael and Welp, E.G.	Phenomens of Rolling Contact in Paper Calendering	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC						

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1300	o	roll;wrap;handling	06-Oct-91	10	Nielsen, M.C.	The Latest Developments in Roll Wrapping and Handling	TAPPI Finishing and Converting Conf. Proc., Houston, pp 93-102, Oct 6-10 1991	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5678&DID=516376	Roll handling systems are improved and simplified with the use of a specially designed slat conveyor. This design makes it possible to reduce the number of individual roll handling components, save floor	conference	TAPPI						
2566		static_electricity	01-May-99	4	Niklarz, Rich and Blitshteyn, Mark	Static Neutralizing Problems are not without Solutions	Paper, Film & Foil Converter, vol 73, no 5, pp 58-61, May 1999				magazine	Paper Film Foil Converter						
1301		wrinkle;stress;buckling;FEM	01-May-87	23	Nilkanth, Vinay K.	Web Material Effects on Wrinkling Instability Experimental and	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						
1302		steam;dry;condensate;rimming	01-Feb-73	4	Nimmo, B.G and Ayers, J.F.	Thickness Variation of Rimming Film Inside Horizontal Rotating Cylinder	Ind. & Eng'g., Chem., Proc. Design and Dev., Vol 12, no 2, pp 211-213, 1973											
1303		runnability;economics	01-Nov-81		Nissan, D.E.	Cost of Web Breaks	ANPA/CPPA Conf. Proc., Newsprint and the Pressroom, Nov 1981											

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1304	o	blown;film;wrinkles	08-Sep-96	15	Noguchi, J.	Factors Affecting the Reduction of Film Wrinkles	TAPPI Polymers, Laminations and Coatings Conf. Proc., pp 585-601, Boston, Sept 8-12, 1996	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5426&DID=521219	use of coextruded blown film structures containing stiff materials such as HDPE, polypropylene, polyamide, EVOH, polystyrene and polyester have created difficulties in collapsing these film structures wrinkle free. The increased use of metallocenes	conference	TAPPI						
1305		computer;control	01-Aug-82		Nomoto, A.	Microcomputer Aided Control Systems for the Finishing Process	Japan Pulp & Paper, vol 20, no 2, pp 95-102											
1306		convert;nonwoven	01-Apr-91		Noonan, E.	Converters of Nonwovens	Nonwovens Industry, Apr 1991				magazine							
1307		curl;measure	01-Jan-97	7	Nordstrom, Anders and Carlsson, Leif A and Hagglund, Jan-Erik	Measuring Curl of Thin Papers	Tappi J., vol 80, no 1, pp 238-244, January 1997				magazine	TAPPI						
1308		drive;tension;load_cell;dancer;control	01-Oct-97	4	Novit, Edward S.	Controlling Tension on Coater/Laminator Machines	Paper Film Foil Converter, vol 71, no 10, pp 62, 64, 66-67, October 1977				magazine	Paper Film Foil Converter						
3708	o	roller;groove;model	07-Jun-09	15	Nurmi, Simo and Berstrom, Fredrik and Immonen, Eero and Lehtinen, Antti and Juppi, Kari and Martinsson, Lars	Modeling Grooved Rolls with Moving 2D porous Media	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC						

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1309			09-Aug-88		Nutter, Darin W.	Investigation of Experimental Noncontact Tension Methods	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						
1310	o	calender	06-Oct-91	14	Nuut, O.	SNC: The Supercalender of the Nineties	TAPPI Finishing and Converting Conf. Proc., Houston, pp 191-204, Oct 6-10 1991	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5678&DID=516359	Straight Nip Calender (SNC) with its main characteristics of overhanging load compensation for all intermediate rolls and maintenance of even nip pressure across the facewidth	conference	TAPPI						
3681		wound;roll_hardness;diameter;measurement;control;IQHardness;Metso	01-Dec-08	4	Nuyan, Seyhan (Metso) and Williams, Mark		Pulp & Paper, vol 82, no 11, pp 37-40, November 2008				magazine	Pulp and Paper						
1311		core;manufacture;maintenance	02-Oct-78		Nygaard, D.C.	Iron Core Processing	TAPPI Finishing and Converting Conf. Proc., 1978				conference	TAPPI						
3571	o	control;registration	06-May-08	1	Oakes, Joel	Optmizing Registration in Converting Equipment	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	Delta Industrial					
1313		hydraulic brake;unwind;tension;control	01-Oct-81		O'Brian, J.	Whitely Divsion Comstock and Wescott Emphasizes Creative Engine	Paper Age, vol 17, no 10, pp 38-39				magazine	Paper Age						
1312		wind;rebuild	01-Jun-90		O'Brian, J.	Valmet-Appleton's Winder Modernization Programs Enhance the Quality and Productivity of Older Winders	Paper Age, Jun 1990				magazine	Paper Age						
2930		safety;standards;osha;book	01-Jan-02	364	O'Brien, Daniel Patrick	The Safety Officers Concise Desk Reference	Lewis Publishers, Boca Raton, 2001	10			Book							

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1314		roll structure;density	01-Sep-85	11	Odell, Michael H. and Symons, Russel E. and Brown, Greg S.	Control of the Winding Process by Roll Density Measurement	Appita, vol 38, no 5, pp 359-369, Sep 1985.				magazine	APPITA						
14115	o	wind;automatic;change	07-Jun-15		Oedl, G and Schuster, S	Fast Winder Chane with Reduced Influence on Film Tension	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	Bruckner					
10060		gage;thickness;scanner	08-Jun-14		Oerley, Hans	How Metrology Systems Help to Increase Product Quality while Saving Production Costs and Time	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014	3			conference	AIMCAL	Schenk GmbH					
6034		headbox;paper machine;maintenance	01-Feb-96	7	Offerhaus, Douglas H.	The Challenge: lapping a headbox apron floor	Pulp & Paper Canada, Vol 97, No 2, Feb 1996	4			magazine	Pulp & Paper Canada	Norske Paper	HeadboxLappingOfferhaus	MiscScan	pdf	19-Mar-11	
6032		headbox;paper machine;maintenance	01-Jun-96	7	Offerhaus, Douglas H.	Continuing the Challenge - Blueprinting a Headbox	Pulp & Paper Canada, Vol 97, No 6, June 1996	4			magazine	Pulp & Paper Canada	Norske Paper	HeadboxBlueprintOfferhaus	MiscScan	pdf	19-Mar-11	
3477		electri;motor;damage	01-Jan-07	1	Oh, William	Mitigating VFD-induced electrical damage	Pulp and Paper, pp 21, January 2007				magazine	Pulp and Paper						
1315	o	web_handling;patent	19-May-91	7	Ohnishi, S. and Matsumoto, K. and Walker, T.	Japanese Patents Investigation Report on Web Handling Technology	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 311-317, May19-22 1991					WHRC						
1316		wind;center;two_drum;newsprint;nip	01-Dec-86		Oinonen, Hannu	Can Centre Winders be Used with Newsprint?	Pulp & Paper Canada, vol 87, no 12, Dec 1986				magazine	Pulp and Paper Canada						
1317		wind;news;wrinkle	01-Dec-86		Oinonen, Hannu	How to Avoid Wrinkles in Newsprint	Pulp & Paper Int'l, vol 28, no 12, pp 52, Dec 1986				magazine							

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1318	o	calender;roller;heated	01-Oct-89	6	Okamoto, K.	New Aspect of Temperature Gradient Calendering	TAPPI Finishing and Converting Conf. Proc., Kansas City MO, pp 159-164, Oct 1-5 1989				conference	TAPPI						
3219	o	cast;film;die;lip;mainenance	29-Aug-04		Oliver, Gary D.	Die Lip Sensiivity in Cast Film Dies	TAPPI PLACE Conf, Indianapolis, August 29, 2004				conference	TAPPI	Extrusion Dies					
1319	o	tension;control;dancer;load_cell	21-Sep-97	16	Oliver, Matt	Tension Control Systems for Sheet Cutters	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 37-52, September 21-24, 1997				conference	TAPPI						
1320		sensor;material;property	01-Mar-91		Olofsson, K. et al	A New Method to Detect Anisotropy and Local Variations in Paper	Tappi J., vol 74, no 3, Mar 1991				magazine	TAPPI						
5831		wind;stress;model;centerwind		9	Olsen, Jan Erik	Stack Modulus as a Winding Parameter		3			report	author	Self	StackModulusWinding	WindModel Scan	doc and pdf	28-Nov-09	
5832		wind;stress;model;centerwind	01-Jun-95	12	Olsen, Jan Erik	Effective Tension and Roll Defects		3			report	author	Self	EffectiveTensionRollDefects	WindModel Scan	doc and pdf	28-Nov-09	
1322	o	wind;model;centrifugal;speed	18-Jun-95	10	Olsen, Jan Erik	The Effect of High Velocities, Startup and Shutdown on Winding	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5834		wind;stress;model;centrifugal	01-Jul-95	5	Olsen, Jan Erik	On the effect of centrifugal force on winding	Tappi J., vol 78, no 7, pp 191-195, July 1995	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4738&DID=514155	centrifugal force is included in Hakiel's nonlinear model for wound roll stresses. As expected, an increase in centrifugal force has an increasing effect on the in-roll tangential stress and a decreasing effect on the radial pressure	magazine	TAPPI	Self	CentrifugalForceWinding	WindModelScan	doc and pdf	28-Nov-09	
5833		wind;stress;model;two-drum	01-Sep-98	8	Olsen, Jan Erik	Dynamic Analysis of Two Drum Winding		3			report	author	Self	DynamicAnalysisTwoDrum	WindModelScan	doc and pdf	28-Nov-09	
2576	o	wind;model;baggy_edges	06-Jun-99	8	Olsen, Jan Erik	Modeling of Edge Roll Defects	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC						
2840	o	lateral;guide;model	11-Jun-01	10	Olsen, Jan Erik	Lateral Mechanics of an Imperfect Web	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC						
3095	o	lateral;guide;model	01-Sep-02	5	Olsen, Jan Erik	Lateral Mechanics of an Imperfect Web	J of Pulp and Paper Science, vol 28, no 9, pp 310-314, 2002.				magazine	J Pulp and Paper Science						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3066	o	lateral;guide;model	01-Jun-03	8	Olsen, Jan Erik	Shear Effects and Dynamics of Imperfect Webs	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC						
3315	o	wind;model;3D	05-Jun-05	10	Olsen, Jan Erik	Widthwise Variations in Web Properties and Wound Roll Structure	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC						
3288	o	lateral;model	05-Jun-05	10	Olsen, Jan Erik	Lateral Mechanics of Baggy Webs at Low Tensions	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC						
3727	o	guide;baggy;model	07-Jun-09	10	Olsen, Jan Erik	An Updated Model for Lateral Displacment of Nonuniform Webs	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC						
1321	o	winding	01-Jun-97		Olsen, Jan Erik and Irgens, F.	Aspects of Two Drum Winding	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1324	o	calender;heat_transfer;roller;temperature	04-Oct-98	10	Olsen, Jan Erik and Luong, Chi Huu	Modelling of Heat Transfer during Calendering	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 53-62, October 4-8, 1998	4	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5255&DID=509160	model enables calculations of the temperature held in paper. It accounts for changes in density and porosity as the paper goes through the nip, and variations in thermal conductivity	conference	TAPPI						
1325		waterjet;slitting	02-Oct-78	6	Olsen, John H.	Waterjet Slitting	TAPPI Finishing and Converting Conf. Proc., 1978				conference	TAPPI						
1326		waterjet;slitter;scoring;corrugated;automatic control	01-Mar-77	3	Olsen, John H. and Kapcsandy, Louis E.	Waterjet Slitting of Corrugated Board	Tappi J., vol 60, no 4, pp 83-85, Apr 1977				magazine	TAPPI						
1327		wind;seminar	01-Mar-91		Olshansky, Alexis	Introducing to Winding	TAPPI Short Course, Mar 1991				shortcourse	TAPPI	Beloit Lenox					
1328	c	wind;roll;vibration;safety	01-Jan-92	22	Olshansky, Alexis	Roll Bouncing	Beloit Lenox Internal Report, 1992						Beloit Lenox					
1329		wind;maintenance	01-Oct-93	2	Olshansky, Alexis	Winder Maintenance	American Papermaker, October 1993				magazine	American Papermaker	Beloit Lenox					
1330	o	wind;roll;vibration;safety	06-Oct-96	10	Olshansky, Alexis	Roll Bouncing	TAPPI Finshing and Converting Conf. Proc., pp 119-128, October 6-9, 1996	5	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5386&DID=521542	severe vibration of paper rolls on a two-drum winder that culminates in a single roll or a whole set coming out of the drum pocket, is called roll bouncing or roll throwout	conference	TAPPI	Beloit Lenox					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5692		wind;vibration;throwout	01-Feb-97	9	Olshansky, Alexis	Roll bouncing	TAPPI J, vol 80, no 2, pp 99-107, February 1997	5	http://www.tappi.org/s_tappi/sec publications.asp?CID=4754&DID=518913	roll throw out or roll bouncing. This paper explains the mechanism of roll bouncing, the most common causes of the phenomenon	magazine	TAPPI	Beloit Lenox	RollBounce Olshansky	VibrationScan	doc and pdf	03-Oct-09	
5905		unwind;maintenance	01-Sep-97		Olshansky, Alexis	Unwind stand maintenance: the key to finishing success	TAPPI JOURNAL, September 1997, Vol. 80(9)	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4732&DID=518081	subjected to torque-reversing shocks, tension, high speed, and vibration of eccentric rolls, that slowly take their toll. The unwind is crucial to delivering a square sheet under controlled tension to each of these processes	magazine	TAPPI	Beloit Lenox	RollBounce Olshansky	VibrationScan	doc and pdf	03-Oct-09	
1332	o	wind;roll;model	12-May-97	93	Olson, Robert C.	Some Limitations of Existing Theory for Modeling Stresses in Wound Roll of Bidirectional Profiled Webs	MS Thesis, Univ of St. Thomas, May 12, 1997				thesis							
2598		wind;tension;defect	01-Jan-97	4	Olssen, J.E.	Effective Winding Tension and roll defect - a theoretical study	Nordic Pulp and Paper Research J., no 1, 9-12, 1997											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1333	o		01-Jun-97		Onno, F. and Elias, A.	Optimization of Roll Mechanical Profiles in a Continuous Annealing Line for Steel Strips	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC						
2603	o	crown;roller;guide	06-Jun-99	12	Onno, F. and Petit, J.C.	Measurement and Prediction of the Centering Effect of a Profiled Roll on Steel Strips	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC						
9974		string;lateral	01-Jan-79		Ono, K.	Lateral Motion of an Axially Moving String	J of Applied Mechan ics, Vol 46, pp 905-912, 1979				journal							
5582		roller;design	01-Sep-86	3	Opad, Jeff	Test Your Roller IQ	Paper, Film & Foil Converter, Sept 1986	2			magazine	Paper Film Foil Converter	American Roller	TestRollerIQ	RollerScan	doc and pdf	19-Dec-09	
5665		spreader;bowed_roller;expander_roller;compliant_cover	01-Aug-90	3	Opad, Jeff	The Right Roll for Wrinkle-Free Web Processing	Plastics Technology, Aug 1990	3			magazine	Plastics Technology	American Roller	RightRollWrinkleFree	SpreadWrinkleScan	doc and pdf	19-Dec-09	
2681		roller;corona_treat;dialectric	01-Dec-99	3	Opad, Jeff	DielectricMaterials in Corona Treating	Converting Magazine, vol 17, no 12, pp 88-90, December 1999				magazine	Converting Magazine	American Roller					
2874		extrusion;coating	26-Aug-01		Orsini, Frank	Extrusion Coating Equipment	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Diego, Aug 26-30, 2001				conference	TAPPI	Egan Davis-Standard					
5467		coating;film;extrusion;die;extruder	27-Mar-96	16	Orsini, Frank (Piffer, Louis presenter)	What is Extrusion Coating?	CEMA Shortcourse The Coating and Lamination Process Substrates, Coatings and Equipment, March 27, 1996	3			shortcourse	CEMA	Egan Davis-Standard	ExtrusionCoatingOrsini	CtgCema96	doc and pdf	01-Oct-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1336		analytical;anisotropy;microwaves;instrument;orientation;resona	01-Feb-87	4	Osaki, Shigeyoshi	Microwaves Quickly Determine the Fiber Orientation of Paper	Tappi J., vol 70, no 2, pp 105-108, Feb 1987				magazine	TAPPI						
1337		duplex winder	20-Feb-78	8	Osborn, Howard	Prospects for Finishing	Paper, vol189, no 4, pp171-172, 174, 176, 178, 180, 184, 198, Feb 20 1978				magazine	Paper						
1338		core;strength	01-Oct-95	4	Osborne, Denice R.	Fiber Cores - Technology to meet industry requirements	Tappi J., vol 78, no 10, pp 47-50, October 1995	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4852&DID=518159	Five major innnovations in the paper and printing industries—wider web widths, faster press speeds, larger diameter rolls, surface-center drive single-drum winders and the elimination of metal pipe and ends	magazine	TAPPI						
1339	o	core;strength;stiffness;speed	15-Oct-95	6	Osborne, Denise R.	Fiber Cores - Technology to Meet Industry Requirements	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 197-202, Oct 15-18, 1995				conference	TAPPI						
1340		automation;process;control;roll handling	06-Oct-85	2	Osterberg, Douglas	Mill Experience of a Highly Automated and Integrated Winding System	TAPPI Finishing and Converting Conf. Proc., 1985				conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3430	o	coating	18-Sep-06		Ostness, Lee A.	Coating Technology for Flexible Packaging	TAPPI PLACE Conf, Cincinnati, September 17-21, 2006	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=9355&DID=552265	Flexible Packaging is widely used in today's world. It is used to package a multitude of products such as: processed meat, processed cheese, fresh red meat, bulk liquids, cereals, cake mix, coffee, medical device films, snacks and many others	conference	TAPPI	Black Clawson					
5546		moisture;humidity;curve	01-Jan-43	1	Ott, Emil	Cellulose and Cellulose Derivatives	High Polymers Monograph, pp 382-383, 1943	3			book	Interscience Publishers	Hercules Powder Co	MoistureCellulose	MoistureScan	doc and pdf	17-Sep-09	
1341	cx	paper;material;property;moisture;humidity;book	01-Jan-43		Ott, Emil	High Polymers	Interscience Publishers Inc, New York, 1943											
1342	o	guide	01-Jun-97		Otten, J.B. and Limpens, H.L. and Boots, R.A. and Michel H.	The Effect of Dual Actuating Strip Guidance Systems in a Continuous Steel Annealing Line	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC						
1343		static	02-Oct-95		Owens, Jack	Static Control	AIMCAL 1995 Fall Tech. Conf. Proc., Atlanta, Oct 2-4, 1995					AIMCAL						
1344	o	wind;basis_weight;crepe wrinkle;large_roll	16-Mar-87	4	Paananen, J. and Ebeling, K.	Effect of Grammage on Formation of Crepe Wrinkles in Production of Large Diameter Rolls	Winding Technology Conf. Proc., Swedish Newsprint Research Center (TFL), Stockholm, Mar 16-171986				conference	STFL						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3084	o	wind;tension;model;measurement	01-Jun-03	8	Paanasalo, J. (Metso)	A Method for Measuring Wound-on-Tension	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC						
6014	o	wind;tension;model;measurement	19-Aug-05	8	Paanasalo, J. (Metso)	MODELLING AND CONTROL OF PRINTING PAPER SURFACE WINDING	Ph.D. Thesis Helsinki University of Technology Department of Automation and Systems Technology Control Engineering Laboratory	5			thesis	Department of Automation and Systems Technology, at Helsinki University of Technology (Espoo, Finland)	Metso	SurfaceWindingPaanasalo	BookScan	doc and pdf	20-Jan-11	
1345		wind;roll_structure;hardness	01-Dec-86	71	Padgett, Paul O.	Roll Hardness Measurement	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						
5615		runnability;paper;web_break;measurement;print;press;peformance	01-Aug-82	4	Page, D.H. and Seth, R.S.	The Problem of Pressroom Runnability	Tappi J., vol 65, no 8, pp 92-95, Aug 1982	5			magazine	TAPPI	PAPRICAN	Pressroom Runnability	Runnability Scan	doc and pdf	30-Dec-09	
1347		strength;beating;press;curl;straightness;fiber;optical;property	01-Sep-79	4	Page, D.H. and Seth, R.S. and De Grace, D.H.	The Elastic Modulus of Paper: The Controlling Mechanisms.	Tappi J., vol 62, no 9, pp 99-102, Sep 1979				magazine	TAPPI	PAPRICAN					
6091		tension;control;model	01-Jan-07	11	Pagilla, P.R. and and Siraskar, N.B. and Dwivedula, R.V.	Decentralized Control of Web Processing Lines	IEEE Trans. On Control Systems Technology, vol 15, pp 106-116, Jan 2007				conference		WHRC					
3501	o	control	10-Jun-07	8	Pagilla, P.R. and Cimino, M. and Knittel, D.	Design fo Fixed Order Controllers for Web Longitudinal Control	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3714	o	tension;model	07-Jun-09	20	Pagilla, P.R. and Diao, Y.	Web Line Resonant Frequencies	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC						
9992		tension;model	01-Nov-11		Pagilla, P.R. and Diao, Y.	Resonant Frequencies in Web Process Lines due to Idler Rollers	ASME J of Dynamic Systems Measurment and Control				journal	ASME						
2844	o	lateral;model;control	11-Jun-01	10	Pagilla, P.R. and Dwivedula, R.V. and Zhu, Y.L and Mandal, S.S. and Hopcus, K. and Haque, J.	Lateral Control of a Web using Estimated Velocity Feedback	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC						
9993		tension;model	01-Jun-01		Pagilla, P.R. and Garimella,S and Dreinhoeffer, LH and King, EO	Resonant Frequencies in Web Process Lines due to Idler Rollers	IEEE Transactions on Industry Appplications, vol 37, pp 934-940, June 2001				journal	ASME						
6113		tension;control;model	01-May-00		Pagilla, P.R. and King, E.O. and Dreinhoefer, L.H. and Garimella, S.S	Robust Computer Based Control of an Aluminum Strip Processing Line	IEEE Transcation on Industry Applications, vol 36, no 3, May/June 2000				magazine	IEEE	WHRC					
6114		tension;control;model;accumulator	01-Jan-01		Pagilla, P.R. and King, E.O. and Dreinhoefer, L.H. and Garimella, S.S	Dynamics and Control of Accumulatoors in Continuous Strip Processing Lines	IAS Annual Conf, Rome 2000				magazine	IAS	WHRC					
6115		tension;control;model;accumulator	01-Jan-01		Pagilla, P.R. and King, E.O. and Dreinhoefer, L.H. and Garimella, S.S	Dynamics and Control of Accumulatoors in Continuous Strip Processing Lines	Proc IEEE Transactions on Industry Applications, vol 37, no 3, May/June 2011				magazine	IEEE	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3300	o	tension;control;model	05-Jun-05	10	Pagilla, P.R. and Knittel, D.	Recent Advances in Web Longitudian Control	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC						
2827	o	tension;drive;dancer;control;model	11-Jun-01	10	Pagilla, P.R. and Perera, L.P. and Dwivedula, R.V.	The Roll of Active Dancers in Tension Control of Webs	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC						
3507	o	laminate	10-Jun-07	8	Pagilla, P.R. and Reid, K.N and Newton, J.	Modeling of Laminated Webs	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC						
3648		accumulator			Pagilla, P.R. and Singh, I. and Dwivedula, R.V.	A Study on Control of Accumulators in Web Processing Lines	J of Dyanmic Systems, Measurement and Control (ASME), vol 126, September 2004				magazine							
3740		accumulator	01-Sep-04		Pagilla, P.R. and Singh, I. and Dwivedula, R.V.	A Study on Control of Accumulators in Web Processing Lines	J of Dyanmic Systems, Measurement and Control (ASME), vol 126, September 2004				magazine							
10092		drive;tension;control;model;measurement	20-Oct-14		Pagilla, Prabhakar	Design of Control Systems to Mitigate Web Tension Oscillations	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014	5			conference	AIMCAL	OSU					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1348	o	open;draw;pm;model	06-Jun-93	16	Pakarinen, Pekka and Ryymin, Risto, and Kurki, Matti, and Taskinen, Pekka	On the Dynamics of Web Transfer in an Open Draw	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC						
1349		convert;tissue	01-Apr-91		Pallini, J.J.	Tissue Converting Trends for the 90's	TAPPI Tissue Runnability Seminar, Apr 1991				shortcourse	TAPPI						
1350		calender;soft	01-Oct-90		Palokangas, E.	Soft-Nip Calendering: Reel Benefits to Papermakers	American Papermaker, Oct 1990				magazine	American Papermaker						
1351		tissue;softness;ultrasonic;measurement	01-Jan-89		Pan, Y. et al	Empirical Relationships between Tissue Softness and Out-of-Plane Ultrasonic Measurements	Tappi J., 1989				magazine	TAPPI						
5508		measure;ultrasonic;modulus;paper	01-Feb-73	4	Papadakis, E.P.	Ultrasonic Methods for Modulus Measurement in Paper	Tappi J., vol 56, no 2, pp 74-77, Feb 1973	2			magazine	TAPPI	Self	UltrasonicModulusMeasure	MeasurementScan	doc and pdf	29-Dec-09	
1353		wrinkle;tension;shear;loading	01-Jul-86	108	Papandreadis, Andrew	The Development of Finite Element Modeling Techniques of Webs a	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						
3069	o	traction	01-Jun-03	8	Paper, Film & Foil Converter, vol 73, no 9, pp 88-93, September 1999	A Simple Model to Predict Web-to-Roller Traction	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC	Kodak					
2760	o	wind;machine;design	16-Oct-00		Pappas, Michael	Key Ingredients to a Slitter Rewinder	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL						
9903		winder;automation;ergonomics	01-Aug-12	6	Pappas, Michael	Technology advances aid slitter/rewinder productivity, versatility and ergonomics	Converting Quarterly, qtr 2, 2012	3			magazine	AIMCAL	Catbridge Machinery					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
10035		duplex;winder;roll_handling	01-May-14	4	Pappas, Michael	Tray systems for discharge of large, heavy finished rolls	Converting Quarterly, qtr 2, 2014	3			magazine	AIMCAL	Catbridge					
5761		wind;roll_handling;ramp	01-Oct-94	6	Papworth, Simon and Moller, Klaus	The Dagbladet full-scale printing trials	Tappi J, vol 77, no 10, pp 117-122, October 1994	5	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4883&DID=520347	27 printing trials was carried out under standardized full-scale production conditions on a modern, four-color, offset press. One objective was to evaluate the roll-quality characteristics of the different newsprints. Roll hardness and out-of-roundness	magazine	TAPPI	Norske Skog	RollHardnessRoundness	WindGeneralScan	doc and pdf	06-Nov-09	unique
6031	o	crepe_wrinkle;wind;bias;caliper;moisture	01-Feb-10	10	Parent, Frederic	Can crepe wrinkles at the bottom set be reduced by applying moisture and caliper bias at the edges?	PAPRICAN Element 14 Runnability Research	5		Can crepe wrinkles at the bottom set be reduced by applying moisture and caliper bias at the edges?	meeting	PAPRICAN	PAPRICAN	CrepeWrinkleBiasParent	WindGenScan	ppt	19-Mar-11	
5943	o	drive;tension;laser;sensor;web_break	18-May-10	1	Parent, Frederic	Troubleshooting Draw and Tension Variations on Printing Presses and Converting Equipment by Use of Laser Doppler Velocimetry Sensors	Applied Web Handling Conf, AIMCAL AWEB, Rochester, May 17-20	5	http://www.aimcal.org/association/aweb10/abstracts.asp?RECORD_KEY=filename&filename=parent	Laser Doppler sensors to measure high frequency draw variations of webs, and examined the relationship between draw variations and web breaks	conference	AIMCAL	PAPRICAN	AWEB/AWEB10	AWEB2010	pdf	04-Jun-10	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6030	o	crepe;wrinkle;reel_spool;moisture;AZ	01-Jan-11		Parent, Frederic	Runnability Research, Can crepe wrinkles at the bottom set be reduced by applying moisture and caliper bias at the ends	PAPRICAN internal publication	5		Can crepe wrinkles at the bottom set be reduced by applying moisture and caliper bias at the ends	report	PAPRICAN	Paprican	CrepeAZMoisturePaRent	WindGeneralScan	ppt	25-Feb-11	
6069		baggy_web;measure;sensor	06-Apr-11		Parent, Frederic	Quantifying Web Bagginess: A first Step in Improving Runnability on Presses and Converting Lines	ICE USA 2011 Tech Program	5			conference	ICE AIMCAL	FP Innovations Paprican					
9878		calender;profile	22-Oct-12		Parent, Frederic	The negative impact of uneven calendering on web properties and strength	AIMCAL Web Handling Conference, Myrtle Beach, Oct 22-23, 2012			Uneven calendering will affect web properties such as thickness, gloss and strength, and will also negatively affect the quality and runnability on printing presses and converting equipments	conference	AIMCAL	FP Innovations	CalRollerBarWebBreakParent	RunnabilityScan	pdf	27-Jul-12	
14082		lateral;instability;guide;print;profile;baggy	01-Feb-15	5	Parent, Frederic	Troubleshooting web lateral instability	Packaging Films, Feb 2015				magazine	Packaging Films	FP Innovations	LaterialInstabilityParent	MiscScan	pdf	06-May-15	
14117	o	flutter	07-Jun-15		Parent, Frederic	Web Instability at Open Draw and its Impact on Paper Machine Efficiency	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	research					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9939	o	baggy;web;measure;tension	01-May-11	18	Parent, Frederic and Hamel, Jean	Measurement and correction of baggy webs on a paper machine	PaperCon, May 1-4, 2011	5	http://www.tappi.org/Downloads/Conference-Papers/2011/2011-PaperCon-Conference/11PAP52.aspx		conference	TAPPI	FP Innovations Paprican					
6047	o	baggy;web;measure;tension	13-Jun-11	18	Parent, Frederic and Hamel, Jean	Bagginess and Baggy Streaks: A Novel Measurement Technique to Quantify Tension Profile of a Web in Cross-Direction at High Resolution	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15	5			conference	WHRC	FP Innovations Paprican					
9940	o	baggy;web;measure;tension;registration;fiber_angle;profile	02-Jun-13	17	Parent, Frederic and Hamel, Jean	Evaluating the impact of non-uniform paper properties on web lateral instability on printing presses	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	5			conference	WHRC	FP Innovations Paprican					
10091		troubleshoot;guide;path	20-Oct-14		Parent, Frederick	Troubleshooting Causes of Web Lateral Instability During Printing and Converting	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014	4			conference	AIMCAL	FP Innovations					
1355		calender;nip;stress;measure	01-Apr-58	4	Parish, G. J.	Measurements of Pressure Distribution Between Metal and Rubber Covered Rollers	British J. of Applied Physics, vol 9, pp 158-161, April 1958											
1356		calender;nip;stress;calculation	01-Jul-61	4	Parish, G. J.	Calculation of the Behavior of Rubber-Covered Pressure Rollers	British J. of Applied Physics, vol 12, pp 333-336, July 1961											
9985		calender;nip;stress;measure	01-Sep-58	6	Parish, GJ	Apparent Slip between metal and rubber covered Pressure Rollers	British J. of Applied Physics, vol 9, vol 9, pp 428-433, 1958				journal							

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1357		test	01-Jan-81		Parker, H.V.		Quality Progress, vol 14, no 3, pp 18, 1981						Continental Forest Industries					
5509		measure;online;thickness;paper	01-Jul-82	5	Parker, H.V.	What's Happening in Off-Line and On-Line Test Equipment	Tappi J., vol 65, no 7, pp 27-31, Jul 1982	2			magazine	TAPPI	Continental Forest Industries	OfflineOnlineTest	MeasurementScan	doc and pdf	29-Dec-09	
1359		calender;bar	01-Jan-65	9	Parker, J.R.	Corrugation of Calender Rolls and the Barring of Newsprint	Paper Technology, vol 6, no 1, pp T1-T9, 1965				magazine	Paper Technology						
1360		troubleshoot;web	01-Jul-91		Parker, J.R.	Solving Mechanical and other Faults Afffecting the Web	Paper Technology, Jul 1991				magazine	Paper Technology						
1361		calender;bar			Parker, J.R. and Epton, J.B.A	Analysis and Control of Calener Barring	Pulp and Paper Mag				magazine	Pulp and Paper Canada						
1362		bearing;lubrication	01-Feb-96	2	Parks, Wade and Hahn, Jeff	Circulating Oil Systems	Tappi J., vol 79, no 2, pp 103-104, February 1996	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4853&DID=518017	Most mills cannot afford to replace an entire lubrication system. They are forced to expand lube capabilities in a piece-meal fashion, using poorly sized, piped, or maintained existing equipment. This results in poor lubrication	magazine	TAPPI						
6103		tension;profile;measure	01-Jan-99		Parola, M and Sundell, H. and Virtanen, J. and Lang, D.	Web Tension Profile and Printing Press Runnability	PAPTAC 85th Annual Meeting, Montreal, pp B341, 1999				conference	PAPTAC						
9982		tension;profile;measure	01-Feb-00	5	Parola, M and Sundell, H. and Virtanen, J. and Lang, D.	Web Tension Profile and Gravure Press Runnability	Pulp and Paper Canada, Vol 101, no 2, pp 35-39, 2000				magazine	PAPTAC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6104		tension;profile; measure	01-Jan-95		Parola, M. and Mahonen, A. and Linnna, H.	Improving Runnability by Controlling the Web Tension Profile	Proc of the First EcoPaperTech International Conf on Papermaking and Paper Machine Technology, Helsinki, p 61, 1995				conference							
2809		tension;profile; measure	11-Oct-99		Parola, Markku and Beletski, N	Tension across the paper web - a new important property	Proc of the 27th EUCEPA Conf, Grenoble, Oct 11-14, 1999											
9980		tension;profile; measure	01-Apr-03	17	Parola, Markku and Kaljunen, T and and Beletski, N and Paukku, J	Analyzing the Printing Press Runnability by Data Mining	TAGA Proc, 2003, pp 435-451, Apr 14, 2003											
2810		tension;profile; measure	10-Sep-00		Parola, Markku and Kaljunen, T and Vuaorinen, S.	New mehods for the analysis of the paper web performance on the press	27th IARIGAI Research Conf, Graz Austria, Sept 10-13, 2000											
1363	o	load_cell;tension;profile;measurement	21-Sep-97	8	Parola, Markku and Linna, Hannu and Kaljunen, Timo	The Effect of Supercalendering on th Web Tension Profile	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 119-126, September 21-24, 1997	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5326&DID=511911	The tension profile measured in the printing press corresponds to the profile measured on the winder and it differs from the tension on the paper machine. The supercalender dominated the formation of the tension profile	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9960	o	nip;roller;rubber;print;feed;registration;heat	02-Jun-13	16	Parola, Markku and Sorvari, Joonas	Modeling web behaviorin printing presss and in printed electronics	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	3			conference	WHRC	VTT Tech Research Center Finland					
2812		tension;profile;measure	01-Feb-01		Parola, Markku and Sundell, . And Virtanen, J and Lang, D.	Web tension profile and gravue press runnability	Pulp & Paper Canada, vol 101, no 2, pp T35-39, February, 2000				magazine	Pulp and Paper Canada						
6106		tension;profile	01-Jan-01		Parola, Markku and Vourinen, S. and Linna, H and Kaljunen, T and Beletski, N.	Modeling Web Tension Profile in a Paper Machine	12th Fundamental Research Symposium				conference							
2897	o	roll_coating	22-Oct-01		Pasquale, John A. III	Principles and Uses of Roll Coating Equipment	AIMCAL Fall Tech Conf, Oct 22-24, 2001					AIMCAL	New Era					
2974	o	laminating	21-Oct-02		Pasquale, John A. III	Wet and Dry Bond Laminating	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL	New Era					
3023	o	coating	15-Apr-03	5	Pasquale, John A. III	Modernizing Existing Coating Hardware	CMM Int'l, T4 Coating Session, Chicago, April 15, 2003						New Era					
3240	o	thin;film;speed	24-Oct-04		Pasquale, John A. III	Unwinding and Winding Thin Films at High Speeds	AIMCAL Fall Tech Conf, Charleston, October 24-27, 2004					AIMCAL	New Era					
3203	o	wind;unwind;speed	25-Oct-04	1	Pasquale, John A. III	Unwinding and Winding Thin Films at High Speeds	AIMCAL Fall Tech Conf, Charleston SC, Oct 24-27, 2004					AIMCAL	New Era					
3439		coating;reverse_roll	23-Oct-06	1	Pasquale, John A. III	An in-depthlook at reverse roll coating	AIMCAL Fall Tech Conf Proc, Reno, October 22-25, 2006					AIMCAL	New Era					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9839		coat;hot_melt	22-Oct-12		Pasquale, Robert	Methods and Design Considerations for the Application of Hot Melt Coatings	AIMCAL Web Coating Conference, Myrtle Beach, Oct 22-24, 2012				conference	AIMCAL	New Era					
1364		web;steam;heat;experimental	01-Mar-96		Patterson, Timothy and Strand, Mark A. and Orloff, David I	An apparatus for the evaluation of web-heating technologies	Tappi J., vol 79, no 3, pp 269, March 1996	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4757&DID=518793	Institute of Paper Science and Technology has designed, built, and tested an apparatus for evaluating web-heating technologies. The apparatus can be used to investigate both web-heating problems on specific paper machines	magazine	TAPPI						
1365	o	wind;computer;control	24-Oct-93	6	Patton, W.	Modern Winder Parameter Control	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 261-266, Oct 24-27 1993	2	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=5578&DID=523493	paper examines current offerings for single drum, two drum, and belted winding parameter control and slitter positioning	conference	TAPPI						
9979		lateral;guide;paper;width;register;print	04-Oct-04	5	Paukku, J and Parola, M and Vuorinen, S	Web Widening and Lateral Movements of Paper Web in a Printing Press	Int'l Printing and Graphic Arts Conf											
1366	c	wind;core_burst;lwt;wit		4	Paukkunen, Petri	Winding Problem Solved by Analyzing Whole Paper Production Line	Paper News (1995 or 1996?)											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1367		core;recycle	01-Oct-95	2	Pauksta, Patricia M.	Core Conversion and Reclamation	Tappi J., vol 78, no 10, pp 50-51, October 1995				magazine	TAPPI						
1368		coat;machine; speed	01-Aug-98	3	Pauksta, Patricia M.	Speed: Its Effect on Coating Equipment and Formulation	Tappi J., vol 81, no 8, pp 58-60, August 1998	2	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4730&DID=517924	Phil W. Smith, production manager--coaters and size presses, Beloit Corporation, Rockton, IL; Jukka Linnonmaa, business manager, coaters and reels, Valmet Inc., Appleton, WI; Jorma Kinnunen,R&D manager, coating machines,Valmet Co	magazine	TAPPI						
1369		core	01-Jan-91		Pearson, J.	Sonoco Aims to Make a Better Core	Pulp & Paper International, Jan 1991				magazine							
1370		paper;property;strain;stress;creep;rheology	01-Jan-85	4	Pecht, Michael and Johnson, Milliard W. Jr.	The Strain Response of Paper Under Various Constant Regain States	Tappi J., vol 68, no 1, pp 90-93, Jan 1985				magazine	TAPPI						
5490		material;creep;paper;measurement	01-May-84	3	Pecht, Michael and Johnson, Milliard W. Jr. and Rowland, Robert E.	Constitutive Equations for the Creep of Paper	Tappi J., vol 67, no 5, pp 106-108, May 1984	3			magazine	TAPPI	UW Madison	EquationsPaperCreep	MaterialScan	doc and pdf	30-Dec-09	
10014		load_cell;tension;measure	01-Dec-13	2	Pedersen, Henning	Load-cell functionality and benefits for tension control	Converting Quarterly, qtr 4, 2013	4			magazine	AIMCAL	Montalvo					
9941	o	die;coating;design	02-Jun-13	1	Pederson, Erik	Precision die coating technology and related web handling challenges	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	2			conference	WHRC	Avery Dennison					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1372		calender;soft;hard	01-Oct-91		Peel, J.D.	Supercalendering and Soft Nip Calendering Compared	Tappi J., vol 74, no 10, Oct 1991				magazine	TAPPI						
1373	o	calender;soft;hard	06-Oct-91	16	Peel, J.D.	Supercalendering and Soft Nip Calendering Compared	TAPPI Finishing and Converting Conf. Proc., Houston, pp 175-190, Oct 6-10 1991	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5678&DID=516356	Direct pilot plant comparisons of the properties of medium weight coated papers were made in order to determine what conditions were necessary with soft nip calenders to match the fully supercalendered	conference	TAPPI						
1374		nip;calender;elasticity	01-May-66	11	Peel, J.D., and Hudson, F. Lyth	Application of Elasticity Theory to a Supercalender Nip	Paper Technology & Industry, vol 7, no 5				magazine	Paper Technology						
1375			01-Jan-37		Peirce, F.T.	The Geometry of Cloth Structure	J. of the Textile Institute, vol 28, pp T45-T96, 1937				magazine							
5836		wind;stress;model;centerwind	01-Oct-89	5	Penner, Alvin	Roll Structure Theory	Tappi J., vol 72, no 10, Oct 1989	2			magazine	TAPPI	Quebec and Ontario Paper	RollStructureTheory	WindModel Scan	doc and pdf	28-Nov-09	
1377	o	wind;model	07-Oct-90	6	Penner, Alvin	Roll Structure Calculations at Constant Wound-In Tension	TAPPI Finishing and Converting Conf. Proc., Lake Buena Vista FL, pp 105-110, Oct 7-10 1990	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5730&DID=515324	calculation is able to theoretically predict the interlayer pressure at the core which is of interest in the case of gearing effects, and it predicts the relationship between the roll density monitor and wound-in tension	conference	TAPPI	Quebec and Ontario Paper					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5835		wind;stress;model;centerwind	01-Jul-91	5	Penner, Alvin	Roll Structure Calculations at Constant Wound-in-Tension	Tappi J., vol 74, no 7, pp 160-164, Jul 1991	2			magazine	TAPPI	Quebec and Ontario Paper	RollStructureCalculations	WindModel Scan	doc and pdf	28-Nov-09	
1379	o	friction;measure;test	18-Jun-95	16	Penner, Alvin	Stick-Slip Behavior of Paper during Friction Testing	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC	Quebec and Ontario Paper					
2658		core_shaft	01-Jan-99	3	Pennington, J. Neiland	Pneumatic mandrels: An alternative for coil processing	??											
9899		curl;product;design;laminate;design	01-Jan-85		Penwell and Chow		Poly Eng Sci, 25, 367-373, 1985	4			magazine							
3089		dancer;tension;control	01-Jan-01		Perara, L.P.	The Role of Active Dancers in Tension Control of Webs	MS Thesis, WHRC, Oklahoma State University, 2001.				thesis	WHRC						
1380	o	roll;web;defect;newsprint;book;troubleshoot	01-Jan-94	72	Percival, Adrian and Solis, Jerry	About Newsprint	Smurfit Newsprint Corporation, 1994	10			Book	Smurfit Newsprint Corporation, 1994		AboutNewsprintSmurfitPercivalSolis	Bookscan	doc and pdf	25-Sep	
1381	c	flutter;model		10	Perkins, Noel C.	Linear Dynamics of a Translating String on an Elastic Foundation												
1382	c	flutter;model	01-Feb-87	16	Perkins, Noel C.	Three-Dimensional Vibration of Travelling Elastic Cables	J. of Sound and Vibration, vol 114, no 2, pp 325-340, Feb 1987				magazine							
1383	c	flutter;model		20	Perkins, Noel C. and Mote, C.D. Jr.	Theoretical and Experimental Stability of Two Translating Cable Equilibria	J. of Sound and Vibration, 1988				magazine							
1384		elasticity;fiber;strength;Youngs modulus;paper;property;math	01-Dec-76	3	Perkins, Richard W. Jr and Mark, Richard E.	On the Structural Theory of the Elastic Behavior of Paper	Tappi J., vol 59, no 12, pp 118-120, Dec 1976				magazine	TAPPI						
1385		paper;property;strength;test;edge crush test;linerboard;compre	01-Feb-81	4	Perkins, Richard W. Jr and McEvoy, Robert P. Jr.	The Mechanics of the Edgewise Compressive Strength of Paper	Tappi J., vol 64, no 2, pp 99-102, Feb 1981				magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1386		winder;operation	21-May-84		Perrin, A.R.	Application of Common Rewinders	TAPPI Finishing Short Course (Portland) Notes, pp 14-18				conference	TAPPI						
3004	o	web_clean;vacuum;static	01-Jan-03	4	Perry, Jay	Web cleaning choices	Converting Magazine, vol 21, no 1, pp 32-36, January 2003	4	http://www.convertingmagazine.com/article/309362-Web_cleaning_choices.php	This article will discuss the basic theories of the boundary layer of air and static electricity, explain the effect that they have on converting processes, and what equipment is necessary to control those effects to deliver a clean material	magazine	Converting Magazine	Simco					
2723		wind;nip;roller;cover	01-Jul-00	2	Peters, H.F.	Stressless Winding	Wochenblatt fur Papierfabrikation, vol 7, pp 356-357, July 1997											
1387		static	01-Apr-90		Peterson, H.	Static Electricity on Sheet and Rotary Printing Pressses	Dtsch. Drucker, Apr 1990											
2624		trim_removal	01-Jul-99	2	Petric, Andre	A synergistic approach to paper reject disposal	Converting Magazine, vol 17, no 7, pp 58-59, July 1999				magazine	Converting Magazine						
1388		convert;machine;design	01-Oct-91		Pfaff, M.R.	The Option of Modularity	Converting, Oct 1991											
1389			01-Feb-81		Pfeifer, R.J.		Pulp & Paper, vol 55, no 2, pp 68, Feb 1981				magazine	Pulp and Paper						
5837		wind;stress;model	12-Oct-64	8	Pfeiffer, J. David	Tensile Strain Energy	Beloit internal report	2			report	author	Beloit	StrainEnergyPfeiffer	WindModelScan	doc and pdf	28-Nov-09	
5805		wind;measure;wit;pressure;acoustic	01-Aug-66	5	Pfeiffer, J. David	Internal Pressures in a Wound Roll of Paper	Tappi J, vol 49, no 8, pp 242-246, Aug 1966	4			magazine	TAPPI	Beloit	InternalPressuresWoundPfeiffer	WindMeasureScan	doc and pdf	22-Sep-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1391		experiment;nip	01-Aug-68	10	Pfeiffer, J. David	The Mechanics of a Rolling Nip on Paper Webs	Tappi J., vol 51, no 8, pp 77A-85A, Aug 1968				magazine	TAPPI	Beloit					
5762		wind;nip;interla yer_slippage;t ension	01-Aug-68	9	Pfeiffer, J. David	Mechanics of a Rolling Nip on Paper Webs	Tappi, vol 51, no 8, pp 77A-85A, Aug 1968	3			magazine	TAPPI	Beloit	RollingNipP feiffer	WindGener alScan	doc and pdf	06-Nov-09	legacy
5806		wind;measure; nip;tension;wit wot	01-Feb-77	3	Pfeiffer, J. David	Nip forces and their effect on wound-in tension	Tappi J, vol 60, no 2, pp 115-117, Feb 1977	4			magazine	TAPPI	Beloit	NipForces WITpfeiffer	WindMeas ureScan	doc and pdf	22-Sep-09	
5807		wind;measure; witwot	01-Mar-77	3	Pfeiffer, J. David	Wound-off tension measurement in paper rolls	Tappi J, vol 60, no 3, pp 106-108, Mar 1977	4			magazine	TAPPI	Beloit	WOTmeas urePfeiffer	WindMeas ureScan	doc and pdf	22-Sep-09	
5705		traction;calcul ation;guide	17-Oct-77	9	Pfeiffer, J. David	Web Guidance Concepts and Applications	TAPPI Finishing and Converting Conf. Proc., pp 23-31, Oct1977	3			conference	TAPPI	Beloit	WebGuida nceApplicat ions	WebHandli ngScan	doc and pdf	18-Dec-09	historical
1395		web handling	01-Dec-77		Pfeiffer, J. David	Web Guidance Concepts and Applications	Tappi J., vol 60, no 12, pp 53-58, Dec 1977				magazine	TAPPI	Beloit					
1397		winding;roll;ten sion;stress;co mputation;pap er;property;roll str	22-Oct-79	6	Pfeiffer, J. David	Formulas for Calculating Roll Structure Allow Prediction of Roll Stresses	TAPPI Finishing and Converting Conf. Proc., 1979				conference	TAPPI	Beloit					
5838		wind;stress;m odel	01-Oct-80	3	Pfeiffer, J. David	Prediction of Roll Defects From Roll Structure Formulas	Tappi J., vol 62, no 10, pp 83-85, Oct 1980	2			magazine	TAPPI	Beloit	PredictRoll DefectsFor mula	WindModel Scan	doc and pdf	28-Nov-09	
1398		measurement; roll;radial modulus	06-Oct-80	3	Pfeiffer, J. David	Measurement of the K2 Factor for Paper	TAPPI Finishing and Converting Conf. Proc., 1980				conference	TAPPI	Beloit					
1399		calender	06-Oct-80	10	Pfeiffer, J. David	Supercalendering 1980 Update	TAPPI Finishing and Converting Conf. Proc., 1980				conference	TAPPI	Beloit					
5808		measure;wind; stack;caliper; modulus;k2	01-Apr-81	2	Pfeiffer, J. David	Measurement of the k2 Factor for Paper	Tappi J., vol 64, no 4, pp 105-106, Apr 1981	4			magazine	TAPPI	Beloit	Measurem entK2paper	WindMeas ureScan	doc and pdf	30-Dec-09	
1402		nip;pressure;p aper;property; smoothness;pr int;tension;dus t	01-Nov-81	2	Pfeiffer, J. David	Effect of Rewinder Variables on Paper Smoothness	Pulp & Paper Canada, vol 82, no 11, pp 31-32, Nov 1981				magazine	Pulp and Paper Canada	McGill Univ					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5763		wind;pressure;smoothness	28-Jan-85	2	Pfeiffer, J. David	Effect of Rewinder Variables on Paper Smoothness	CPPA Annual Mtg (Montreal) Preprints 67th	2			conference	CPPA	McGill Univ	WindPaperSmoothPfeiffer	WindGeneralScan	doc and pdf	06-Nov-09	legacy
5839		wind;stress;model	01-Oct-87	2	Pfeiffer, J. David	An Update of Pfeiffer's Roll-Winding Model	Tappi J., vol 70, no 10, pp 130-131, Oct 1987	2			magazine	TAPPI	McGill Univ	UpdatePfeiffersModel	WindModelScan	doc and pdf	28-Nov-09	
1405	o	slitter;ring;model	01-Oct-89	9	Pfeiffer, J. David	Analysis of the Ring Patterns Formed When Periodic Distrubances Affect Roll Edges	TAPPI Finishing and Converting Conf. Proc., Kansas City MO, pp 33-40, Oct 1-5 1989				conference	TAPPI	McGill Univ					
5765		wind;slit;ring;defect	01-Oct-89	8	Pfeiffer, J. David	Analysis of the Ring Patterns Formed When Periodic Distrubances Affect Roll Edges	Tappi J, pp 59-65, Oc 1989	5			magazine	TAPPI	McGill Univ	SlitterRing Pfeiffer	WindGeneralScan	doc and pdf	06-Nov-09	unique
1406		wind;model	01-Oct-90		Pfeiffer, J. David	Surface Winding to Overcome the Strain Deficiency	Tappi J., vol 73, no 10, Oct 1990				magazine	TAPPI	McGill Univ					
1407	o	wind;model	07-Oct-90	4	Pfeiffer, J. David	Surface Winding to Overcome the Strain Deficiency	TAPPI Finishing and Converting Conf. Proc., Lake Buena Vista FL, pp 233-236, Oct 7-10 1990	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5730&DID=515340	strain deficiency may be defined as the percentage displacement to go from the point where layers of sheet material first touch each other to the point where compressive strain develops	conference	TAPPI	McGill Univ					
5764		wind;two_drum;torque;interlayer_slippage	17-Mar-91	8	Pfeiffer, J. David	Relative Motion Between Web and Winder Drum at the Nip	Winding Technology Conf. Proc., Swedish Newsprint Research Center (TFL), Stockholm, Mar 16-171986	2			conference	STFL	McGill Univ	WinderDrumTorquePfeiffer	WindGeneralScan	doc and pdf	06-Nov-09	legacy

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5907		wind;model	01-Jul-91		Pfeiffer, J. David	Roll-structure calculations at constant wound-in tension	TAPPI JOURNAL, July 1991, Vol. 74(7)	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4822&DID=519578	The equations used are consistent with those of Altmann and Hakiel and they incorporate Pfeiffer's nonlinear stress-strain relationship for compression perpendicular to the sheet. However, the computational problem was simplified	magazine	TAPPI	McGill Univ					
1408	o	wind;model;core	06-Oct-91	8	Pfeiffer, J. David	The Effect of the Core Upon Wound Roll Structure	TAPPI Finishing and Converting Conf. Proc., Houston, pp 25-32, Oct 6-10 1991	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5678&DID=516367	Heavy steel or aluminum core shafts and through shaft chucking systems used in web converting are the cause of many back injuries, worker morale problems, and productivity losses. This paper will explain that carbon fiber	conference	TAPPI	McGill Univ					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1409	o	calender;model;measure	18-Oct-92	8	Pfeiffer, J. David	Shear Stress and Replication in Calendering	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 29-38, Oct 18-21 1992	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5630&DID=516953	web material passes through the contact area between two rolls of a calender, intense stresses are produced which urge plastic and elastic deformations	conference	TAPPI	McGill Univ					
5906	o	center_wind;tension;wit	18-Oct-92		Pfeiffer, J. David	Tension Losses During Centerwinding	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 29-38, Oct 18-21 1992	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5630&DID=517247	series of centerwinding tests the experimental values of interlayer pressure within the wound roll fell far short of the theoretical values predicted by the models	conference	TAPPI	McGill Univ					
1410	o	wind;nip;j-line	06-Jun-93	10	Pfeiffer, J. David	Instrumenting Rolling Nips for Video Recording and Strain Recording	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC	McGill Univ					
1416	o	wind;nip;j-line	24-Oct-93	14	Pfeiffer, J. David	Understanding Rolling Nip Action through Video Technology	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 109-123, Oct 24-27 1993	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5578&DID=523479	To study the mechanism by which some of the defects might be formed, an apparatus has been constructed for viewing the edge of web layers just below the surface as the rolling nip passes by	conference	TAPPI	McGill Univ					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1417	o	calender;nip;deformation	01-Oct-95	4	Pfeiffer, J. David	Deformation of Paper Fibers in the Supercalender Nip	Tappi J., vol 78, no 10, pp 41-44, October 1995	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5460&DID=521816	One aim of this paper is to keep the presentation focused on a fibrous mat, including the inevitable fiber clumps and void fractions. Another goal is to introduce the concept of flow	magazine	TAPPI	McGill Univ					
1414	o	calender	15-Oct-95	5	Pfeiffer, J. David	Deformation of Paper Fibers in the Supercalender Nip	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 174-178, Oct 15-18, 1995	3	http://www.tappi.org/s_tappi/secpublications.asp?CID=4852&DID=518158	One aim of this paper is to keep the presentation focused on a fibrous mat, including the inevitable fiber clumps and void fractions. Another goal is to introduce the concept of flow	conference	TAPPI	McGill Univ					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1411	o	stack_modulus;wind;model	06-Oct-96	18	Pfeiffer, J. David	Using Paper Compressibility Measurements to Enhance Roll Quality	TAPPI Finishing and Converting Conf. Proc., Bal Harbor, FL, pp 111-128, Oct 6-9, 1996	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5386&DID=521541	High quality shipping rolls are produced when the proper roll structure is made during winding. The roll structure in turn depends upon four parameters: the MD tensile modulus, the friction coefficient	conference	TAPPI	McGill Univ					
1415	o	slitting	01-Jun-97		Pfeiffer, J. David	Principles of Web Slitting	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC	McGill Univ					
1418	o	wind;defect;crepe_wrinkle	21-Sep-97	8	Pfeiffer, J. David	Pursuing the Elusive Crepe Wrinkle	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 143-150, September 21-24, 1997	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5326&DID=511815	Crepe wrinkles are persistent defects that go together with lightweight papers, low sheet-to-sheet fiction coefficients, and softer winding techniques. They present a difficult quality control problem	conference	TAPPI	McGill Univ					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5908	o	calender;surface_roughness;tungsten_carbide	01-Oct-97		Pfeiffer, J. David	Paper Quality Improvements Through Supercalendering With Rolls of High Surface Finish	TAPPI Finishing and Converting Conf. Proc., 1997	4	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5326&DID=511912	Tungsten carbide flame-sprayed coatings applied to chilled iron rolls not only resist wear but also allow grinding and polishing the rolls to mirror-like surfaces of 0.05 µm Ra (2.0 µin Ra) or better.	conference	TAPPI	McGill Univ					
1412	o	wind;stack;modulus	04-Oct-98	4	Pfeiffer, J. David	Practical Applications of the Compressability Equation Suggest Simplification	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 125-129, October 4-8, 1998	3	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5255&DID=509140	exponential compressibility equation for modeling the behavior of a pile of paper sheets has two versions. One contains three arbitrary coefficients, K1, K2, and K3	conference	TAPPI	McGill Univ					
2577	o	wind;measure;stack_modulus	06-Jun-99	12	Pfeiffer, J. David	Compressive Modulus Measurement Techniques	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC	McGill Univ					
1413	o	wind;model;core	19-May-91	15	Pfeiffer, J. David and Hamad, W. Y.	How Core Stiffness and Poisson ratio Affect Energy Balance Roll Structure Formulas	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 1-16, May19-22 1991					WHRC	McGill Univ					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3308	o	winding;R&D;history	05-Jun-05	10	Pfeiffer, J. David and Lucas, Robert G.	Twenty Major Developments in Seven Years	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC	McGill Univ					
14126	o	lateral;dyanamics;guide	07-Jun-15		Philipp, A and You, C and Bosch, Robert	Model-based Control of Lateral Web Behavior - An Interconnection of Two WebGuiding Systems Within Packagin Machinery	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	university					
1419	o	tungsten_carbide;calender;roller	02-Oct-94	14	Phillips, Bruce A. and Knapp, James K.	The Application of Thermal Spray Coatings on Calender Rolls	TAPPI Finishing and Converting Conf. Proc., Chicago, pp 143-156, October2-5, 1994	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5515&DID=522850	Thermal spray coatings resist surface degradation on calender rolls and thus provide improved, more consistent paper quality and, through extended roll change intervals, reduced costs	conference	TAPPI						
1420		roller;coating;tungsten-carbide;wear	01-Oct-95	10	Phillips, Bruce A. and Knapp, James K.	Thermal Spray Coatings Reduce Wear and Corrosion on Calender Rollers	Tappi J., vol 78, no 10, pp 196-205, October 1995	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4852&DID=518382	Thermal spray coatings resist surface degradation on calender rolls and therefore provide improved, more consistent paper quality	magazine	TAPPI						
1421		static	01-Mar-90		Picciano, F.	Technical Forum: Static Control	Converting Magazine. Mar 1990				magazine	Converting Magazine						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1422		duplex winder;roll structure;core; chuck;centerwind;winding	01-Jun-77	3	Piehl, Harri	Finnish Mills Findings After One Year With New Winding Technique	Pulp & Paper, vol 51, no 6, pp 122-124, Jun 1977				magazine	Pulp and Paper						
1423		roller;water;cool	01-Oct-93	3	Pierce, Win C.	Effective Water Cooling Systems Extend Roll Covering Performance	Tappi J., vol 76, no 10, pp 198-200, Oct 1993	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4808&DID=514626	The methods of internal water cooling for rubber-covered press roll cores can affect the life and performance of the roll itself.	magazine	TAPPI						
5468		coating;PSA	27-Mar-96	8	Pierson, Don G and Huminski, Frank M	Optimizing the Coating of Pressure Sensitive Adhesives	CEMA Shortcourse The Coating and Lamination Process Substrates, Coatings and Equipment, March 27, 1996	2			shortcourse	CEMA	Rohm and Haas	CoatingPsa RohmHaas	CtgCema96	doc and pdf	01-Oct-09	
5935		laminating;design	19-Apr-10		Piffer, Lou	The Viability of Hybrid line in Extrusion Coating Design	TAPPI PLACE Conf, Albaquerque, Apr 20-22, 2010	2			conference	TAPPI	Davis-Standard					
14090		extrusion;coat; laminate	01-Apr-15	5	Piffer, Lou	Extrusion Coating in an adhesive lamination world	Converting Quarterly, qtr 2, 2015	4			magazine	AIMCAL	Davis-Standard					
2858		extrusion;coat	26-Aug-01		Piffer, Louis W.	Introduction to Extrusion Coating Equipment for Engineers	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Diego, Aug 26-30, 2001				conference	TAPPI	Davis Standard					
3423	o	coating;machine;upgrade	18-Sep-06		Piffer, Louis W.	Low or No cost Extrusion Coating Improvement	TAPPI PLACE Conf, Cincinnati, September 17-21, 2006				conference	TAPPI	Davis Standard					
2800		safey	01-May-01	1	Pile, Kate W.	Safety performance metrics: Part II of II	Pulp & Paper, vol 75, no 5, pp 25, May 2001				magazine	Pulp and Paper						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2942	o	winder;safety; accident	01-May-02	1	Pile, Kate W.	Preventing Winder Accidents	Pulp & Paper, vol 76, no 5, pp 25, May 2002				magazine	Pulp and Paper						
2946		winder;safety; accident	01-Jun-02	2	Pile, Kate W.	Preventing Winder Accidents	paperloop.com, Pulp&Paper, June 2002				magazine							
1424		computer;control;	01-Jun-81	10	Pillinger, A.S.	Who Cares About Finishing	AITIPE Congr (Torremolinos) 2 vol 2 sect 4 349-358											
1425	o	air;float;lateral; guide;model	01-Dec-92	36	Pinnamaraju, Ravi	Measurements on Air Bar/Web Interaction for the Determination of Lateral Stability of a Web in Flotation Ovens	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						
1426		wind;model;wrong	01-Jan-94		Piper, Christopher A.	A Nonlinear Model to Calculate the Stressed State of a Center-Wound Roll	University of Minnesota, Master's Thesis											
1427	o	wind;model;wrong	18-Jun-95	16	Piper, Christopher A.	A Nonlinear Model to Calculate the Stressed State of a Center-Wound Roll	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC						
3461		model;optimization;neural	01-Dec-06	4	Piquer, Alex (Voith)	Model-based optimization drives mill profitability, product quality	Pulp and Paper, pp 39-43, December 2006				magazine	Pulp and Paper						
1428		convert;economics			Pirotta, A.	Determining Converting Costs in a Company Producing Flexible Packagin	Rass dell'imballagio											
3707	o	wind;hardness;measurement	07-Jun-09	16	Pitkanen, Tatu, and Bettendorf, Robert (Metso)	Axisymmetric Wound Roll Models	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC						
1430		edge guide	01-Jan-76		Platt, D.	Automatically Guiding the Web	Printing Trades J, no 1067, pp 23-24											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9844		dry;acoustic	22-Oct-12		Plavnik, Gene	Acoustic Drying Technology - Case Studies Coating Applications	AIMCAL Web Coating Conference, Myrtle Beach, Oct 22-24, 2012			various case studies relevant to application of its patented (pending) acoustic drying technology in various water and solvent based coating applications	conference	AIMCAL	Heat Technologies, Inc					
3362	o	edge_guide;sensor	01-Jan-06	1	Plumb, John	Finding the right sensor	Converting Magazine, vol 24, no 1, pp 34, Jan 2006	3	http://www.convertingmagazine.com/article/308844-Finding_the_right_sensor.php	Finding the right sensor is a combination of knowing what you need and what a web guide sensor can do.	magazine	Converting Magazine	Fife					
1431		nip;winding;dancer roller	01-Dec-85	70	Plummer, David Warren	Modeling and Sensitivity Analysis of the Rewind Portion of a Web	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						
1432		package;odor	01-Mar-92		Podhajny, Richard M.	The Source of Packaging Odors	Converting Magazine, Mar 1992				magazine	Converting Magazine	Self					
1433		corona;film;print	01-Jun-94	1	Podhajny, Richard M.	Corona Treatment of Films	Converting Magazine,Converters Consultant column, pp 20, June 1994				magazine	Converting Magazine	Self					
1434		corona;film;print	01-Dec-94	4	Podhajny, Richard M.	Surface Treating: How and How Much	Converting Magazine, pp 36-42, December 1994				magazine	Converting Magazine	Self					
1435		coef_friction;cof;film;print;solvent	01-Sep-95	1	Podhajny, Richard M.	What can Cause Surface Printed Films to Increase COF upon standing	Converting Magazine, pp 20, September 1995				magazine	Converting Magazine	Self					
1436		coef_friction;cof;film;print;solvent	01-Feb-98	1	Podhajny, Richard M.	Problems with Coefficient of Friction Revisited	Paper, Film & Foil Converter, vol 72, no 2, February 1998				magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2564		lubriction;cof;packaging	01-May-99	1	Podhajny, Richard M.	A Look at Some Lubricants used in Packaging Materials	Paper, Film & Foil Converter, vol 73, no 5, pp 26, May 1999				magazine	Paper Film Foil Converter	Self					
2635		temperature;moisture;season;printing	01-Sep-99	1	Podhajny, Richard M.	The long, hot summer and its effect on printing	Paper, Film & Foil Converter, vol 73, no 9, pp 30, September 1999				magazine	Paper Film Foil Converter	Self					
2669		blocking;ink;solvent;corona	01-Nov-99	1	Podhajny, Richard M.	Common Causes of Blocking in Flexo and Gravure Printing	Paper, Film & Foil Converter, vol 73, no 11, pp 26, November 1999				magazine	Paper Film Foil Converter	Self					
2684		ink;cof;friction;chemistry	01-Feb-00	1	Podhajny, Richard M.	The effect of Ink Film Hardness on Coefficient of Friction	Paper, Film & Foil Converter, vol 74, no 2, pp 24, February 2000				magazine	Paper Film Foil Converter	Self					
3191		ink;film;cof;friction	01-Jul-04	1	Podhajny, Richard M.	Rise & Fall of Printed Film COF	Paper, Film & Foil Converter, vol 78, no 7, pp 24, July 2004	4	http://pffc-online.com/mag/paper_rise_fall_printed/	fatty acid amides to meet desired COF specifications. The types of lubricants used to meet the desired COF in printing inks can vary from micron-sized particles of PE	magazine	Paper Film Foil Converter	Self					
1437	o	safety	21-Sep-97	18	Polacek, Jack and Vissers, Jim	Safety Roundtable Workshop Discussion	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 175-192, September 21-24, 1997				conference	TAPPI	Appleton					
5583		roller;rubber;polymer;design;compound	01-Apr-99	8	Polston, Wallace R.	Elastomer Rollers: How to Maximize Performance	Paper, Film & Foil Converter, vol 73, no 4, pp 98-112, April 1999	4			magazine	Paper Film Foil Converter	American Roller	ElastomericRollersPolston	RollerScan	doc and pdf	04-Dec-09	unusual
3285		wrapper	#########	3	Ponkamo, Jukka	Film Wrapping is a Popular new trend in Roll Wrapping	Pulp & Paper, vol 79, no 6, pp 55-57, June 2005				magazine	Pulp and Paper	Metso					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1440	o	roll;handling	07-Oct-90	6	Ponkamo, Jukka	Handling Jumbo Rolls of Rotogravure Printing Papers from Winders through Roll Wrapping and to the Printing Press	TAPPI Finishing and Converting Conf. Proc., Lake Buena Vista FL, pp 139-144, Oct 7-10 1990	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5730&DID=515329	approximately 20 308cm - wide rotogravure printing presses in operation or on order in Europe. The same development in press widths will take place in North America	conference	TAPPI	Metso					
1441	o	roll;label	06-Oct-91	6	Ponkamo, Jukka	Automatic Roll Labelling - Various Equipment Concepts and Label Materials	TAPPI Finishing and Converting Conf. Proc., Houston, pp 121-126, Oct 6-10 1991	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5678&DID=516350	Roll labelling applications for today's varied requirements -- from single body labels to "multiple labelling" of the roll end and body -- as well as different label materials and label printers	conference	TAPPI	Metso					
1443	o	wrap;recycle	18-Oct-92	4	Ponkamo, Jukka	European Newsletter - New German Legislation of Recylcing of Packaging Materials	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 333-336, Oct 18-21 1992				conference	TAPPI	Metso					
1442	o	roll;handling	18-Oct-92	10	Ponkamo, Jukka	Effective Roll Handling Concepts in Warehouse and Shipping Area	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 79-88, Oct 18-21 1992				conference	TAPPI	Metso					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1444	o	roll;wrap	24-Oct-93	10	Ponkamo, Jukka	Jumbo Roll Wrapping - Newest Tools and Practices	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 355-364, Oct 24-27 1993	2	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5578&DID=523506	successfully wrap these jumbo rolls to withstand transportation to the pressroom, a number of practices with new technologies and materials have emerged	conference	TAPPI	Metso					
1445	o	roll_handling	02-Oct-94	6	Ponkamo, Jukka	Winder Discharge Area Layouts for Different Style Winders	TAPPI Finishing and Converting Conf. Proc., Chicago, pp 99-104, October2-5, 1994	2	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5515&DID=522863	Winder discharge area conveyor layout is different depending on the style of winder, two drums or single drum style. Further layout details depend on which direction the roll flow has to be directed	conference	TAPPI	Metso					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1438	o	wound_roll;wrapping	15-Oct-95	4	Ponkamo, Jukka	Roll Wrapping Concepts in the 90's	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 145-148, Oct 15-18, 1995	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5460&DID=521779	fully automatic systems which identify, wrap, and label shipping rolls completely untouched by human hands. Late 80's and early 90's saw also the development of simple roll wrapping concepts, single station	conference	TAPPI	Metso					
1446	o	wrapper	21-Sep-97	4	Ponkamo, Jukka	Modern Roll Wrapper Operator Interfaces Increase Sustem Availability	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 95-98, September 21-24, 1997	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5326&DID=511799	overview of the operator control station designs on wrapping lines, from benchboards to today's personal computer-based systems. As the degree of automation has increased, development in the controls area has been keeping pace to help operators	conference	TAPPI	Metso					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1439	o	roll_handling	04-Oct-98	10	Ponkamo, Jukka	Practical Roll Handling Systems in the Warehouse Make Perfect Sense	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 1-10, October 4-8, 1998	2	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=5255&DID=509138	Roll handling systems in the paper mill warehouse can range from one conveyor and clamp truck to a sophisticated system which loads the truck trailers automatically without clamp trucks	conference	TAPPI	Metso					
2642	o	roll;labeling	03-Oct-99	8	Ponkamo, Jukka	Automated Roll Labelling Systems Provide Added Value	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 19-26, October 3-7, 1999	2	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=5187&DID=508490	Automatic roll labeling systems provide added value through the entire transportation chain from the mill to the end user	conference	TAPPI	Metso					
1447		calender;creep;model	01-Sep-89		Popil, R.E.	The Calendering Creep Equation - A Physical Model	9th Fundamental Research Symposium, Sep 1989											
1448		automation;slitter;density;dimension;geometry;pressure;control;	01-Jan-83	1	Popova, N.B. et al.	Control of the Wound Density of Roll Materials	Bumazh. Prom., no 1, pp 30, Jan 1983 [Russian]											
2661		winding;yarn	01-Feb-99	8	Porat, I et al	Computer simulation of cone winding mechanisms with constant rate of yarn delivery systems	Textile Research J., vol 69, no 2, pp 113-120, February 1999				magazine							
1449		core;chuck;core shaft;unwind	01-Oct-76		Porter, R.W.	Western Kraft Plant Improves Corrugator Operation	Boxboard Containers, vol 84, no 3, pp 44-49											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2863		cast;embossed;film	26-Aug-01		Post, Steven J.	Cast Embossed Film - Alternative Machine Designs to Enhance Film Properties	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Diego, Aug 26-30, 2001	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5114&DID=524863	"dry" process has significant advantages, in that it allows the processors to have complete control over the optical properties of the finished film. The disadvantage of the "dry" process is the limited heat removal applied to the rubber roll	conference	TAPPI						
1450		defect;sensor;laser	01-Sep-90		Potts, T.A.	Defect Detection in Web Processes Using Retro-Reflective Laser Systems	TAPPI Polymers, Laminations and Coating Conf. Proc., Sep 1990	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5745&DID=515465	visual inspection ineffective. Automatic inspection provides the means to maximize high quality production, improve the Quality Assurance program	conference	TAPPI						
10103		thickness;profile;measurement	20-Oct-14		Potts, Tim	Online Measurement of Ink Height	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014	3			conference	AIMCAL	Sensory Analytics					
1451		laser;scan;defect	02-Oct-95		Potts, Timothy A.	Laser Defect Detection	AIMCAL 1995 Fall Tech. Conf. Proc., Atlanta, Oct 2-4, 1995					AIMCAL						
3148	o	laser;camera;defect;vision	26-Oct-03		Potts, Timothy A.	Automatic Inspection Laser vs. Camera Systems (Dark Field Technologies, Inc.)	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003					AIMCAL						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9904		winder;automation;ergonomics	01-Aug-12	3	Pozar, Frank	Automating roll removal in slitting/rewinding ooperations	Converting Quarterly, qtr 2, 2012	2			magazine	AIMCAL	REM Manufacturing					
5693		flutter;measure	01-Jul-86	5	Pramila, Antti	Sheet Flutter and the Interaction Between Sheet and Air	Tappi J., vol 69, no 7, pp 70-74, July 1986	4			magazine	TAPPI	Univ Technology Finland	SheetFlutterInteractAir	VibrationScan	doc and pdf	25-Dec-09	
1453		automation;roll handling	01-Jan-84	4	Pratt, William E. and Reed, Gordon M.	Automating Roll Handling	PIMA, pp 35-38, Jan 1984				magazine	PIMA						
5531		wind;news;cof;friction;measure;control;chemistry		51	Preston, JS	An Overview of the Factors which Affect the Friction of Newsprint	ECC Presentation	3			presentation	ECC	ECC	NewsprintFrictionECC	MiscScan	doc and pdf		
3025	o	wind;shaft	13-Apr-03	5	Pretto, John (Goldenrod)	Airshaft Technology: A New Century	CEMA Coating and Laminating Seminar, Chicago, April 15, 2003				shortcourse	CEMA						
1454		calender	01-May-90		Pride, D.	Rolling Along	Paper, May 1990				magazine	Paper						
1455		core;steel	01-Sep-90		Pride, D.	Hard Cores	Paper, Sep 1990				magazine	Paper						
1456		calender;soft;roller;cover	01-Jun-91		Pross., J.	Glazing Technology: Experiences with Elastic Coverings on Calender Rolls	Wochenbl. Papierfabr., Jun 1991											
1457	o	employ;inury;rehab	24-Oct-93	2	Provencal, Alain	Benefits Derived from Keeping Your Employees on the Job	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 185-186, Oct 24-27 1993	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5578&DID=523485	address the cost effectiveness of early intervention as well as the process of designing and implementing a return to work program. The role of management and the treating physician,	conference	TAPPI						
1458		film;semiconductor;chemical;wide web;substrate;coating;	01-Jan-84		Pruitt, G. Wesley	Selection of Web Processing Equipment for the Application of 10	TAPPI Press, pp125-127 1984					TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1459		print;registration;control	28-Aug-94		Puckhaber, Charles F.	Print Registration Control in a Rotogravure Printing Press Combined with Extrusion Coating or Lamination Processes	TAPPI Polymers, Laminations and Coatings Conf. Proc., August 28 - September 1, 1994	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5533&DID=523380	good registration control is that of substrate elongation, either extension or contraction in both the machine and cross machine directions.	conference	TAPPI	Rotomec					
1460		registration	01-Jan-95		Puckhaber, Charles F.	Troubleshooting Machine Direction Registration Problems	GAA 1995 Annual Convention, GAA, Rochester, NY, 1995						Rotomec					
5682		tension_control;printerpregistration;stress-strain;methodology	01-Mar-95	7	Puckhaber, Charles F.	Print Registration Control in a Rotogravure Printing Press Combined with Extrusion Coating or Lamination Processes	Tappi J., vol 78, no 3, pp 144-154, March 1995	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4847&DID=518601	Extrusion coating, extrusion lamination, image quality, laminating adhesives, print quality, printing machines, rotogravure printing	magazine	TAPPI	Rotomec	PrintRegistrationRoto	TensionScan	doc and pdf	25-Dec-09	
1462		web;handling;tension;quality;control	01-Aug-95		Puckhaber, Charles F.	The Importance of Having Good Web Transport Process Data	TAPPI Polymers, Laminations and Coatings Conf. Proc., 1995	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5474&DID=511884	Good data can be valuable tools in maintaining and improving the performance of web transport in web fed machines. What comprises good data is an issue that every plant should be dealing with	conference	TAPPI	Rotomec					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1463		web;handling;tension;quality;control	01-Feb-96	8	Puckhaber, Charles F.	The Importance of Having Good Web Transport Process Data	Tappi J., vol 79, no 2, pp 239-246, February 1996	3	http://www.tappi.org/s_tappi/sec publications.asp?CID=4853&DID=518964	Good data can be valuable tools in maintaining and improving the performance of web transport in web fed machines. What comprises good data is an issue that every plant should be dealing with	magazine	TAPPI	Rotomec					
2736		chill;cool;roller	28-Aug-00	6	Puhalla, Michael	A Basic Understanding of Chill Rolls	TAPPI Polymers, Laminations and Coatings Conf. Proc., pp 959-964, Chicago, Aug 28-31, 2000	2	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=5151&DID=523246	The purpose of this paper is to provide a basic understanding of chill roll design and function.	conference	TAPPI						
1464		steam;dry;condensate;spoiler_bar;heat_transfer	01-Aug-88	6	Pulkowski, J.H and Wedel, G.L.	The Effect of Spoiler Bars on Dryer Heat Transfer	Pulp and Paper Magazine of Canada, vol 89, no 8, pp 61-66, 1988				magazine	Pulp and Paper Canada						
1465		calender;bar	01-Apr-63	9	Pye, I.T.	Calender Barring in Newsprint	Pulp and Paper Mag Canada, vol 64, no 4, pp T194-T204, April 1964				magazine	Pulp and Paper Canada						
1466		runnability	01-Oct-90		Qi, Z.	On Improving Base Paper Runnability to Raise Finished Products Rate	China Pulp & Paper, Oct 1990											
1467		unwind;brake	01-Mar-90		Qualls, L. and Marcincic, M.F.	Unwinds, Brakes Explained	Paper, Film & Foil Converter, vol 64, no 3, Mar 1990				magazine	Paper Film Foil Converter						
1468	o	wind;model;viscoelastic	18-Jun-95	18	Qualls, William R. and Good, J. Keith	A Nonlinear Orhotropic Viscoelastic Winding Model	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2663		wind;model;viscoelastic	01-Mar-97	8	Qualls, William R. and Good, J. Keith	An orthotropic viscoelastic winding model including a nonlinear radial stiffness	J of Applied Mechanics, v 64, pp 201-208, March 1997				magazine		WHRC					
5809		wind;measure;hardness;backtenders_friend;calender;control	01-Sep-68	6	Quint, R. J.	Measurement and Control of Paper Roll Condition	Tappi J, vol 51, no 9, pp 373-378, Sep 1968	3			magazine	TAPPI	Oxford Paper	MeasureControlRollQuint	WindMeasureScan	doc and pdf	21-Sep-09	
1470		test;method;iso9000	01-May-92	5	Rabbitt, John T. and Bergh, Peter A.	The whys and hows of ISO 9001 Certification	Tappi J., vol 75, no 5, pp 81-84, May 1992	2	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4877&DID=519916	IS0 9000 certification demonstrates the capability of a supplier to control the processes that determine the acceptability of the product or service being supplied	magazine	TAPPI						
1471					Radzimovsky, Eugene I.	Stress Distribution and Strength condition of Two Rolling Cylinders	Univ. of IL Eng. Experimental Station Bulletin no 408.											
2807		dancer;tension;model	01-Aug-95		Rajala, Greg	Active Dancer Control for Web Handling Machine	Master's thesis, Univ. of Wisconsin, Madison, WI, August 1995				thesis		Kimberly-Clark					
3090		dancer;tension;control	01-Feb-97		Rajala, Greg	Controlling Web Tension by Actively Controlling Velocity of Dancer Roller	US Patent 5,602,747, February 1997				patent		Kimberly-Clark					
3298	o	tension;control;model	05-Jun-05	10	Ramamurthy and Pagilla, P.	Effect of Compliance and Backlash on the Output Speed of a Transmission System	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2839	o	flutter;vibration	11-Jun-01	10	Raman, A and Wolf, K. and Hagedorn, P.	Observations on the Vibrations of Paper Webs	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC						
1475	o	sheet	15-Oct-95	4	Ramcke, B. and Brandt, E.	Cut-Size Sheeting Technology Today and in the Future	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 221-224, Oct 15-18, 1995	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5460&DID=521821	We will show the features in today's cut-size sheeter for enhanced production and operation as well as offer services to investigate how to improve cross cut quality	conference	TAPPI						
1476		sheet	01-Oct-96	4	Ramcke, B. and Brandt, E.	Cut-Size Sheeting Technology Today and in the Future	Tappi J., vol 79, no 10, pp 111-115, October 1996	2	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4756&DID=518067	we show the features in today's cut-size sheeter for enhanced production and operation as well as offer services to investigate how to improve cross-cut quality	magazine	TAPPI						
1477	o	sheet	21-Sep-97	4	Ramcke, Bernd and Christ, Wilhelm	Adding Value for Cut-Size Paper by Coating or Coloring of Natural Paper and New Mathods of Packaging	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 161-164, September 21-24, 1997				conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1478		film;creep;model	28-Aug-94		Rand, James L.	A Nonlinear Viscoelatic Creep Model	TAPPI Polymers, Laminations and Coatings Conf. Proc., August 28 - September 1, 1994	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5533&DID=522866	Dynamic Mechanical Analysis data, which is obtained for conditions of very small stress and strain, to predict the strain in the material at stresses approaching the yield stress of the polymer	conference	TAPPI						
1479		film;creep;model	01-Jul-95	4	Rand, James L.	A Nonlinear Viscoelatic Creep Model	Tappi J., vol 78, no 7, pp 178-182, July 1995	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4738&DID=518341	Dynamic Mechanical Analysis data, which is obtained for conditions of very small stress and strain, to predict the strain in the material at stresses approaching the yield stress of the polymer	magazine	TAPPI						
5810		wind;measure;wit;stress;strain-gage	01-Jun-73	4	Rand, Thorkild and Eriksson, Leif G	Physical Properties of Newsprint Rolls During Winding	Tappi J, vol 56, no 6, pp 153-156, Jun 1973	4			magazine	TAPPI	STFL	RollStressMeasureRand	WindMeasureScan	doc and pdf	21-Sep-09	
1481		print;doctor_blad	01-Jul-94	2	Ranoia, Marie	The Doctor is In	Package Printing & Converting, pp 28-30, July 1994				magazine	Package Printing & Converting						
5584		roller;emboss;design	01-Oct-94	6	Ranoia, Marie	The Royal Treatment	Package Printing & Converting Magazine, pp 26-33, Oct 1994	5			magazine	Package Printing & Converting		RoyalTreatmentEmboss	RollerScan	doc and pdf	19-Dec-09	unique *add
1482		stamp;emboss	01-Oct-94	5	Ranoia, Marie	The Doctor is In	Package Printing & Converting, pp 26-33, October 1994				magazine	Package Printing & Converting						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1483		calender;nip;bubble	01-Jan-91		Rantanen, G. and Nvkanen, R.	A Solution to Calender Sheet Bubbling Problems	Canadian Pulp and Paper Assoc, 77th Annual Mtg.				magazine	Canadian Pulp & Paper Ind						
1484		wind;roll;fem;bend;model	30-Aug-95		Rao, N.S and Ruegg, A.	Finite Element Analysis of the Bending of Film Winding Rolls	TAPPI Polymers, Laminations and Coatings Conf. Proc., Chicago, August 27-31, 1995				conference	TAPPI						
1485	o	wind;core;deflect;fem	08-Sep-96	10	Rao, Natti S. and Ruegg, Tony	Finite Element Analysis of the Bending of Film Winding Rolls	TAPPI Polymers, Laminations and Coatings Conf. Proc., pp 475-484, Boston, Sept 8-12, 1996	4	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5426&DID=521201	By using finite element analysis the roll deflection can be accurately determined as a function of the load on the roll. The counter bending forces required to minimise the deflection are obtained in this work from the FE-Analysis	conference	TAPPI						
1486	o	wind;roll_structure;model;measure;pressure;fsr	01-Jul-91	56	Raphael, William J.	An Empirical Study of Surface Wound Rolls	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						
1487		metallize	04-Oct-94	14	Raugei, Paolo	Special Metallizing Considerations	AIMCAL 1994 Fall Tech. Conf. Proc., Atlanta, pp 147-160, Oct 4-5, 1994					AIMCAL						
14122	o	tension;drive;control;model	07-Jun-15		Raul, P R and Pagilla, P R	Dsign of Tension Control Systems to Minimize Interaction and Disturbance Propagation in Web Process Lines	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	university					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6043	o	tension;model;dancer;load_cell	13-Jun-11	17	Raul, P. and Pagilla, P.	Modeling and Frequency Response of Web Tension with a Pendulum Dancer and Comparison of Load-Cell and Dancer Based Tension Control Systems	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15				conference	WHRC	WHRC					
9994		tension;model;dancer;load_cell	01-Jul-10		Raul, PR	Frequency response of web systems containing load cells and dancers, dimensional analysis and model reference adaptive schemes for tension control	MS Thesis, Oklahoma State Univeristy, Jul 2010				thesis	WHRC	WHRC					
9969	o	tension;control;model	02-Jun-13	20	Raul, Pramod R and Pagilla, Prabhakar	Modeling of the transport behavior of low modulus webs	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	3			conference	WHRC	WHRC					
9964	o	tension;control;model	02-Jun-13	20	Raul, Pramod R and Pagilla, Prabhakar R	Application of dimensional analysis to roll-to-roll manufacturing systems	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	3			conference	WHRC	WHRC					
9966	o	tension;control;model	02-Jun-13	20	Raul, Pramod R and Pagilla, Prabhakar R	Application of dimensional analysis to roll-to-roll manufacturing systems	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	3			conference	WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3022	o	slitting	15-Apr-03	5	Rauscher, Paul	Bringing Your Slitting Section into the Next Millennium	CMM Int'l, T4 Coating Session, Chicago, April 15, 2003						EMT					
1488	o	sheet	02-Oct-94	2	Ray, S.	A Commercial Sheet Fed Printer's Decision to Sheet In-House	TAPPI Finishing and Converting Conf. Proc., Chicago, pp 117-118, October2-5, 1994				conference	TAPPI						
1489	o	rebuild;cost;economic	01-Sep-93	4	Reed, R.E. Jr.	Techniques for Estimating the Capital Cost of a Rebuild	Tappi J., vol 76, no 9, pp 53-56, Sep 1993				magazine	TAPPI						
2550		linerboard;paper;stiffness;strength;online;sensor	01-Mar-99	5	Reed, Willard M and Brown, Tom	Online Stength Sensor Improves Linerboard for Macmillan Bloedel	Pulp & Paper, vol 73, no 3, March 1999				magazine	Pulp and Paper						
1490	o	rebuild;speed	01-Sep-93	4	Reese, Richard A.	Paper Machine Rebuilds, Some technical Considerations	Tappi J., vol 76, no 9, pp 59-63, Sep 1993				magazine	TAPPI						
1491		roll;print	01-Oct-91		Reffert, R.	The Jumbo Roll in the Printing Press	Papier, Oct 1991				magazine							
2920	o	roller;inspection;maintenance	02-Dec-01	10	Reid, Craig and Christie, David W.	Cracking and Inspection of Stainless Steel Suction Rolls	TAPPI Engineering and Finishing and Converting Conf. Proc., San Antonio, December 2-6, 2001	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5098&DID=524970	stainless steel rolls, crack initiation occurred at foundry weld repairs. The crack growth rates were very similar to those predicted by a simple fatigue model	conference	TAPPI						
1492	o	whrc;resume	01-May-89	83	Reid, Karl N.	Research Resumes, Faculty Participants	OK. State Univ., WHRC, Internal Report				report	WHRC	WHRC					
1493	o	web;tension;control;model	06-Jun-93	18	Reid, Karl N. and Lin, Ku-Chin	Control of Longitudinal Tension in Multi-Span Web Transport Systems During Startup	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1494	o	dancer;tension;control;model	06-Jun-93	12	Reid, Karl N. and Lin, Ku-Chin	Dynamic Behavior of Dancer Subsystems in Web Transport Systems	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC	WHRC					
1495		tension;control;model	01-Jan-92	14	Reid, Karl N. and Shin, K. H. and Lin, K. C.	Variable-Gain Control of Longitudinal Tension in a Web Transport System	AMD, vol 149, ASME, pp 87-100, 1992						WHRC					
5478		tension;model	19-May-91	14	Reid, Karl N. and Shin, Kee H.	Variable-Gain Control of Longitudinal Tension in a Web Transport System	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 220-233, May19-22 1991	2			conference	WHRC	WHRC	VariableGainControlTension	IWEB	doc and pdf	25-Dec-09	
1497	c	drive;tension;model		14	Reid, Karl N. and Shin, Kee-Hyun	Variable-Gain Control of Longitudinal Tension in a Web Transport Systems	OK. State Univ., WHRC, Internal Report				report	WHRC	WHRC					
5639		slit;laser	01-Sep-99	4	Remes, Willaim J.	Harness the Power of Lasers for Tough Cutting Jobs	Paper, Film & Foil Converter, vol 73, no 9, pp 88-93, September 1999	4			magazine	Paper Film Foil Converter	Laser Machining Inc	SlitLaserRemes	SlitScan	doc and pdf	15-Sep-09	
9948	o	wind;surface;center;nip;model;tension;measure	02-Jun-13	20	Ren, Y and Kandadai, B and Good, JK	The effect of winder type and web material properties on wound-on-tension	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	4			conference	WHRC	WHRC					
1498		wind	01-Nov-89		Renau, J. et al	Look at Winders Continues	Paper, Film & Foil Converter, vol 63, no 11, Nov 1989				magazine	Paper Film Foil Converter						
1499		dryer;design;size	01-Jul-98	4	Rennes, James	Metering Size Press Drying and Web-Handling Systems, Part 2	Tappi J., vol 81, no 7, pp 62-65, July 1998				magazine	TAPPI						
1500		tension	01-Feb-76	4	Reski, David A.	Constant Tension Drives Speed Vinyl Production	Power Transmission Design, Feb. 1976, pp 47-50											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1501		wind;model;composite;capacitor	24-Jun-90		Reuter, R. C. Jr.	Mechanical and Thermomechanical Stress States in Wound Composite Rolls	Proc. of the 5th Japan-U.S. Conference on Composite Materials, Tokyo, Jun 24-27 1990											
1502	o	wind;model;composite;capacitor	19-May-91	11	Reuter, R. C. Jr.	Mechanical Stress States in Heterogeneous Wound Rolls	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 68-78, May19-22 1991					WHRC						
1503		stress;strain	01-Jul-86	168	Reynolds, Brett Harrison	Stress Distribution Computation Within a Membrane Due to a Curvature	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						
6107		belt;band_brake;traction	#########		Reynolds, Osborne	On the Efficiency of Belts or Straps as Connunicators of Work					magazine							
1504		belt;slip	27-Nov-74	1	Reynolds, Osborne	On the Efficiency of Belts or Straps as Communicators of Work	Engineer Magazine, Manchester, Owens College, November 27, 1874											
1505		wind;stack;stress-strain	01-May-88		Rhee, S.W.	A Measurement Method for Determing Modulus of Elasticity of a Stack	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						
2615	o	roller;groove;traction;model;measurement	06-Jun-99	22	Rice, B.S> and Cole, K.A. and Muftu, S.	An Experiemental and Theoretical Study of Web Traction over a Nonvented Roller	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC						
3100		roller;groove;traction;air_entrainment;porous	01-Jan-03	100	Rice, Brian S.	Reduction in Web-toRoller Traction as a Result of Air Lubricaction	Ph.D. thesis, Univ of Rochester, NY, 2003				thesis		Kodak					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3294	o	nip;wrinkle;spread	05-Jun-05	10	Rice, Brian S.	Wrinkle-Free Conveyance in Nips	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC	Kodak					
3072	o	roller;groove;traction;model;measurement	01-Jun-03	8	Rice, Brian S. and Gans, R.F.	A Two-Dimensional Model for Web-to-Roller Traction at Small Wrap Angles	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC	Kodak					
3098		roller;traction;air_entrainment;porous	01-Jan-02	11	Rice, Brian S. and Muftu, S. and Cole, Kevin A.	A Model for Determining the Asperity Engagement Height in Relation to Web Traction over Non-Vented Rollers	Transactions ASME, J of Tribology, vol 124, pp 584-594, 2002.						Kodak					
10108		roller;heat;fluid;induction;coil	01-Dec-14	2	Rice, Michael C	Comparing thermal transfer rolls with induction heated rolls	Packing Films, qtr 4, 2014, pp 26-27	3			magazine	Packaging Films						
1506	o	capacitor;wind;design;lab	06-Jun-93	12	Richardson, Charles B.	Advanced Winding Machine Development at Sandia National Laboratories	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC						
1507		tissue;tension;spreader	21-Sep-81	2	Richardson, George	Benefits for Tissue Converters in Single Drum Rewinding	Paper, vol 196, no 5, pp 34-35				magazine	Paper						
1508		core;tube;manufacture;	01-Jan-78	2	Richnak, P.	Building with Paper Tubes	Ind Design, vol 25, pp 66-67											
3458		slit;saw;rewind	01-Nov-06	6	Rico, Rich	Press-Ready Rolls in one cut help converter gain competitive edge	Pulp & Paper, pp 28-33, Nov 2006.				magazine	Pulp and Paper						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5707		roller;air_entrainment;porosity;permeability	07-Feb-69	5	Riddiford, Alan W.	Air Entrainment Between an Impermeable Paper Web and a Dryer Surface	Pulp & Paper Magazine of Canada, Feb 7 1969	5			magazine	Pulp and Paper Canada	Beloit	AirEntrainmentPaperDryer	WebHandlingScan	doc and pdf	19-Dec-09	nearly unique
5706		roller;air_entrainment;porosity;permeability	01-May-69	4	Riddiford, Alan W.	Airflow Between a Paper Web and a Dryer Surface	Tappi J., vol 52. no 5, pp 939-942, May 1969	5			magazine	TAPPI	Beloit	AirflowBetweenPaperDryer	WebHandlingScan	doc and pdf	19-Dec-09	nearly unique
1512			01-Jun-86	7	Riegert, Richard	he Sensing Resistors, a New Tool in Sensing Technology	Interlink Electronics, pp 1-7, Jun 1986											
1516		winding;roll structure;air entrainment	01-Mar-67	6	Rienau, John M.	Problem-Solving Guide to Understanding Techniques for Winding	Paper, Film & Foil Converter, vol 41, no 3, pp 42-47, Mar 1967				magazine	Paper Film Foil Converter						
1513		wind;	01-Apr-79	4	Rienau, John M.	Primer of Slitting and Rewind Techniques--Part I	Paper, Film & Foil Converter, vol 53, no 4, pp 61-62 etc, Apr 1979				magazine	Paper Film Foil Converter						
1514		wind;	01-May-79	4	Rienau, John M.	Primer of Slitting and Rewind Techniques--Part II	Paper, Film & Foil Converter, vol 53, no 5, May 1979				magazine	Paper Film Foil Converter						
1515		wind	01-Nov-89		Rienau, John M. and Dusenbery, J.	Look at Winding Continues	Paper, Film & Foil Converter, vol 63, no 11, Nov 1989				magazine	Paper Film Foil Converter						
1517		wind;tension;dynamic;vibration	18-Jun-95	14	Ries, James P.	Longitudinal Dynamics of a Winding Zone	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC						
1519	o	tension;control;air_float	01-Jun-97		Ries, James P.	Web Tension in a Flotation Dryer	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1518	o	wind;tension;model	01-Jun-97		Ries, James P.	Experimental Study of Winding Zone Dynamics	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC						
2583	o	tension;dancer;load_cell;model	06-Jun-99	12	Ries, James P.	Theoretical Comparison of Winding Tension Control Methods	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC						
2618	o	roller;traction;measurement	06-Jun-99	12	Ries, James P. and Farr, T.J.	Experimental Study of Idler Roller Slippage	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC						
1520		paper;property	01-Jan-84		Rigdahl, M. et al	Dynamic Mechanical Properties of Paper: Effect of Density	J of Materials Science, vol 19, pp 2955-2961, 1984				magazine							
10044		die_coating;extrusion;lip;FEM;model	08-Jun-14		Rikita, Naoki	High Repeatability Tungsten Carbide Lp Slot Die	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014	5			conference	AIMCAL	MMC Ryotec-Mitsubishi Materials					
1521		injury;accident;liability	01-Aug-79	3	Riley, Robert G.	Paper Machine Injuries: How They Happen and How to Prevent The	Pulp & Paper, vol 53, no 9, pp 117-119				magazine	Pulp and Paper						
2983	o	slit;metallized_films	21-Oct-02		Rimediotti, Fabiano	Slitting of Metallized Films	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL	Galileo					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9909		winder;automation;time_cycle	01-Aug-12	3	Rittmeyer, Gavin	How roll-change automation can improve process quality, productivity and speed	Converting Quarterly, qtr 2, 2012	2			magazine	AIMCAL	Martin Automatic, Inc					
2705		hmi;mmi;ergonomic;computer;control	01-Jan-00	4	Roach, Kevin	Human/Machine Interface	Paper, Film & Foil Converter, vol 74, no 4, pp 80-84, April 2000.				magazine	Paper Film Foil Converter						
1522		convert;book	01-Jan-91		Roberts, F.	Converting Technology International	Sterling Productions International, 1991	10			Book							
3106		curl;baginess;measure	01-Jan-71	9	Roberts, J.M. and Sheppard, T.	On The Mechanics of the Tension-Leving Process	J of the Institute of Metals, vol 99, pp 293-301, 1971.				magazine							
1523		roller;heat_transfer;computer;model	01-Dec-90	2	Roberts, Jack	Computer Program Aids Heat Transfer Adjustments	Paper, Film & Foil Converter, December 1990				magazine	Paper Film Foil Converter	Webex					
1524	o	calender	21-Sep-97	10	Robertson, Rex A.	New Generation Multinip Calender for Increased Finishing Capability	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 23-32, September 21-24, 1997				conference	TAPPI						
1525		film;stress;experimental;measure	01-May-89		Robertson, S.E.	Determination of Certain Mechanical Properties Across the Width of a Finished Product of Polypropylene Web	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9836		laminate;static	22-Oct-12		Robinson, Dr. Kelly	Laminator Static Control	AIMCAL Web Coating Conference, Myrtle Beach, Oct 22-24, 2012			Static charge sealed inside a laminate cannot be neutralized. Static charge must be neutralized on the interior web surfaces prior to lamination. Presented here is an analysis of static control for a line	conference	AIMCAL	self					
3563	o	static;bars;design	06-May-08	1	Robinson, Kelly	Electrostatic Charge Control in Slitting Operations	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	Self					
3753		static	01-Apr-09	2	Robinson, Kelly	Static Specified	Paper, Film & Foil Converter, vol 83, no 8, pp 38-39, Apr 2009	4	http://pffc-online.com/surface_prep/static_elimination/static-specified-0409/	Static must be controlled in many manufacturing operations, and new, more complex products require even lower static to ensure effective converting.	magazine	Paper Film Foil Converter	Self					
3695		static	01-May-09	1	Robinson, Kelly	Stop Tribocharging Your Products	Paper, Film & Foil Converter, vol 83, no 5, pp 12, May 2009	4	http://pffc-online.com/surface_prep/static_elimination/paper-stop-tribocharging-products-0509/	Prevention is the best cure. Most static problems start with tribocharging between two different materials that touch and separate	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3698		static;wind	01-Jun-09	1	Robinson, Kelly	Film Charg Causes Winding Static	Paper, Film & Foil Converter, vol 83, no 6, pp 10, June 2009	4	http://pffc-online.com/static-beat/paper-film-charge-static-0609/	Eliminating static on a winding roll is challenging because the roll can accumulate a large amount of charge — enough to cause headaches for customers, pose a safety risk to operators, and threaten damage to equipment	magazine	Paper Film Foil Converter	Self					
3747		static;wind	01-Aug-09	1	Robinson, Kelly	How To Prevent Unwinding Roll Static	Paper, Film & Foil Converter, vol 83, no 8, pp 14, Aug 2009	4	http://pffc-online.com/surface_prep/static_elimination/prevent_unwinding_roll_0809/	First, do a quick “static check” on the roll to see if it is “hot.” Next, monitor the static on the unwinding film to verify that your incoming material meets your specifications.	magazine	Paper Film Foil Converter	Self					
3751		static;season	01-Sep-09	1	Robinson, Kelly	How to Prevent Winter Static	Paper, Film & Foil Converter, vol 83, no 9, pp 14, Sept 2009	4	http://pffc-online.com/surface_prep/static_elimination/prevent-winter-static-0909/	Static becomes worse in the winter when the humidity decreases. Now is the time to do important preventive maintenance, when an “ounce of prevention is worth a pound of cure.” Here is my Static Prevention Checklist	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3757		static;coatings, treatment	01-Oct-09	1	Robinson, Kelly	Dissipating Static	Paper, Film & Foil Converter, vol 83, no 10, pp 16, Oct 2009	4	http://pffc-online.com/static-beat/paper-dissipating-static1009/	What measurements are important to track static? Relative humidity (RH) is at the top of the list because static is a competition between two very different mechanisms: separation and dissipation.	magazine	Paper Film Foil Converter	Self					
3760		static;rubber;cover;roller	01-Nov-09	1	Robinson, Kelly	Static, Be Gone!	Paper, Film & Foil Converter, vol 83, no 11, pp 16, Nov 2009	4	http://pffc-online.com/static-beat/paper-static-gone-1109/	Dissipating roller charge is important because charged roller surfaces attract dust particles, cause sparks to the grounded roller shafts, and may pose shock risks to personnel	magazine	Paper Film Foil Converter	Self					
3766		static;bar	01-Dec-09	1	Robinson, Kelly	How Static Bars Work	Paper, Film & Foil Converter, vol 83, no 12, pp 14, Dec 2009	4	http://pffc-online.com/static-beat/paper-static-bars-work-1209/	. Static bars are “active ionizers” in the sense that they require a power supply. Many static bars use sharp pins located along the length of the bar to generate ions.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5892		static;bar;roller;design	01-Jan-10	1	Robinson, Kelly	The Best Places for Static Bars	Paper, Film & Foil Converter, vol 84, no 1, pp 14, Jan 2010	4	http://pffc-online.com/editorial/0101-determining-static-bars/	Position of the bar relative to rollers, machine frame elements, and other conductors Film side to be treated or neutralized by the static bar Gap between the static bar and the film surface	magazine	Paper Film Foil Converter	Self					
5920		static;bar;roller;design	01-Feb-10	1	Robinson, Kelly	When to Use Static Blowers	Paper, Film & Foil Converter, vol 84, no 2, pp 10, Feb 2010	4	http://pffc-online.com/surface_prep/static_elimination/0201-use-static-blowers/	Static blowers are active ionizers that use air flow to carry ions across the gap from the ionizer to the film	magazine	Paper Film Foil Converter	Self					
5928		static;measure	01-Apr-10	1	Robinson, Kelly	Measuring Static Charge	Paper, Film & Foil Converter, vol 84, no 4, pp 8, Apr 2010	2	http://pffc-online.com/static-beat/0401-measure-static-charge/	And, since charges are at the root of static problems, the Coulomb meter should be the best one to use…right? Let's take a look at how a Coulomb meter works	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5939		static;measure	01-May-10	1	Robinson, Kelly	How to use an electrostatic voltmeter	Paper, Film & Foil Converter, vol 84, no 5, pp 10, May 2010	4	http://pffc-online.com/static-beat/0510-electrostatic-voltmeter-measures-static/	electrostatic fieldmeter, the workhorse for diagnosing static problems; a Coulomb meter, which measures charge on objects or film samples that fit within a Faraday cup; and a non-contacting electrostatic voltmeter	magazine	Paper Film Foil Converter	Self					
5948	o	static;measure;wind;control	18-May-10	1	Robinson, Kelly	Controlling Static in Winding Rolls	Applied Web Handling Conf, AIMCAL AWEB, Rochester, May 17-20	4	http://www.aimcal.org/association/aweb10/abstracts.asp?RECORD_KEY=filename&filename=robinson	The goal in controlling static in winding rolls is for your customer to unwind a neutral roll in the next operation. Three sources of static in unwinding rolls are reviewed	conference	AIMCAL	self	AWEB/AWEB10	AWEB2010	pdf	04-Jun-10	
5968		corona_treat;ionizer	01-Jun-10	1	Robinson, Kelly	Corona Treaters & Ionizers Compared	Paper, Film & Foil Converter, vol 84, no 6, pp 14, June 2010	3	http://pffc-online.com/surface_prep/static_elimination/0601-corona-treaters-ionizers-difference/	Commercially available neutralizers include brushes, tinsels, ionizing strings, static blowers, and static bars (pin ionizers).	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5971		static;ionizer	01-Jul-10	1	Robinson, Kelly	Choosing Passive or Active Ionizers	Paper, Film & Foil Converter, vol 84, no 7, pp 10, July 2010	4	http://pffc-online.com/surface_prep/static_elimination/0701-choosing-static-neutralizers/	To select an appropriate static neutralizer, you must answer the key question: "How much static is tolerable?" If an electric field of 2 kV/cm causes no problems	magazine	Paper Film Foil Converter	Self					
5973		static;measure	01-Aug-10	1	Robinson, Kelly	How to Measure Static	Paper, Film & Foil Converter, vol 84, no 8, pp 10, Aug 2010	3	http://pffc-online.com/surface_prep/static_elimination/film-production-static-survey-0801/	When did the problem start? Which products are affected and which are not? What process elements or set points might have caused the problem? Being able to answer these questions with reliable data	magazine	Paper Film Foil Converter	Self					
5976		static;measure;wind	01-Sep-10	1	Robinson, Kelly	Monitor Process with a Control Chart	Paper, Film & Foil Converter, vol 84, no 9, pp 10, Sept 2010	3	http://pffc-online.com/surface_prep/static_elimination/monitor-process-control-chart-0901/	Let's use an "Xbar and R" control chart to monitor the static on rolls arriving from a supplier. It is important to unwrap the outer lap or t	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5981		static;winter	01-Oct-10	1	Robinson, Kelly	Prevent Winter Static	Paper, Film & Foil Converter, vol 84, no 10, pp 14, Oct 2010	4	http://pffc-online.com/surface_prep/static_elimination/winter-maintance-procedures-prevent-static-1001/	Static becomes worse in the winter when heating systems operate. Cold air holds less moisture than warm air. Static goes up when humidity is low.	magazine	Paper Film Foil Converter	Self					
5989		static;measure	01-Nov-10	1	Robinson, Kelly	Using Electrostatic Fieldmeters	Paper, Film & Foil Converter, vol 84, no 11, pp 10, Nov 2010	3	http://pffc-online.com/surface_prep/static_elimination/using-electronic-fieldmeters-1101/	Electrostatic fieldmeters are the workhorse for diagnosing static problems. Coulomb meters are used with Faraday cups to measure charge on small objects or film samples. Non-contacting electrostatic voltmeters measure the surface potential of a film.	magazine	Paper Film Foil Converter	Self					
5990		static;measure	01-Dec-10	1	Robinson, Kelly	Using Electrostatic Voltmeters	Paper, Film & Foil Converter, vol 84, no 12, pp 10, Dec 2010	3			magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6075		static;antistatic	02-Feb-11	1	Robinson, Kelly	Charge control antistatic layers	Paper, Film & Foil Converter, vol 84, no 2, pp 14, Feb 2011	3	http://pffc-online.com/surface_prep/static_elimination/charge-control-antistatic-layers-0201/	product formulations include antistatic layers or coatings. Antistatic layers may be categorized in two broad categories: conductive layers and charge control layers.	magazine	Paper Film Foil Converter	Self					
5923		static;measure	01-Mar-11	1	Robinson, Kelly	How to Measure Static	Paper, Film & Foil Converter, vol 84, no 2, pp 14, Mar 2010	3	http://pffc-online.com/surface_prep/static_elimination/0301-measuring-static-electricity/	Electrostatic fieldmeters are the workhorse for diagnosing static problems. Coulomb meters are used with Faraday cups to measure charge on small objects or film samples. Non-contacting electrostatic voltmeters measure the surface potential of a film.	magazine	Paper Film Foil Converter	Self					
6078		static;charge; measure	01-Mar-11	1	Robinson, Kelly	How to Measure Charge Performance	Paper, Film & Foil Converter, vol 84, no 3, pp 10, Mar 2011	3	http://pffc-online.com/web_handling/limitations-vacuum-pull-rollers-0301/	When a new product is introduced or when the formulation of an existing product is changed, static performance should be evaluated	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6080		static;charge; measure	01-Apr-11	1	Robinson, Kelly	Off-line Charging Measurements	Paper, Film & Foil Converter, vol 84, no 3, pp 10, Apr 2011	3			magazine	Paper Film Foil Converter	Self					
6063		static;control	06-Apr-11		Robinson, Kelly	Web Handling Machine Design for Static Control	ICE USA 2011 Tech Program	4			conference	ICE AIMCAL	self					
6083		static;resistivity;measure	01-May-11	1	Robinson, Kelly	How to Measure Resistivity	Paper, Film & Foil Converter, vol 84, no 5, pp 7, May 2011	3	http://pffc-online.com/surface_prep/static_elimination/measure-resistivity-0501/	Resistivity is simply the inverse of conductivity. A pretty small conductivity is a pretty big resistivity. Resistivity is one of the most important material properties to measure when working to control static.	magazine	Paper Film Foil Converter	Self					
6120		static;resistivity;measure	01-Jun-11	1	Robinson, Kelly	Surface Resistivity Testing	Paper, Film & Foil Converter, vol 84, no 6, pp 10, June 2011	3	http://pffc-online.com/surface_prep/static_elimination/surface-resistivity-testing-0601/	Surface resistivity measurements are so important that they are covered by ASTM D-257 Standard Test Methods for DC Resistance or Conductance of Insulating Materials	magazine	Paper Film Foil Converter	Self					
6048	o	static;control	13-Jun-11	12	Robinson, Kelly	Controlling Static on an Unwinding Roll	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15	4			conference	WHRC	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6123	o	static;control;dissapation	01-Jul-11	1	Robinson, Kelly	Static Dissipation Testing	Paper, Film & Foil Converter, vol 85, no 7, pp 9, July 2011	4	http://pffc-online.com/surface_prep/static_elimination/static-dissipation-testing-0701/		magazine	Paper Film Foil Converter	self					
6125	o	static;speed;micro-slip	01-Aug-11	1	Robinson, Kelly	Static Dissipation Testing	Paper, Film & Foil Converter, vol 85, no 8, pp 10, Aug 2011	4	http://pffc-online.com/surface_prep/static_elimination/static-dissipation-testing-0701/	Often static problems are worse on machines that run at higher speeds	magazine	Paper Film Foil Converter	self					
9914		static;corona_treat	13-Mar-12	1	Robinson, Kelly	Control Static at the Corona Treater	Paper, Film & Foil Converter	4	http://pffc-online.com/surface-prep/static-elimination/10153-static-beat-control-static-at-the-corona-treater	Corona treaters produce several unwanted byproducts, including static charge on the treated surface, a layer of low molecular weight polymer on the treated surface, and ozone	magazine	Paper Film Foil Converter	self					
9915		static;laminator	06-Apr-12	1	Robinson, Kelly	Laminators present a static challenge	Paper, Film & Foil Converter	4	http://pffc-online.com/surface-prep/static-elimination/10214-static-beat-laminators-present-static-challenges	Laminators are unique static control challenges because charges can be sealed inside at lamination	magazine	Paper Film Foil Converter	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9916		static;wand	18-May-12	1	Robinson, Kelly	How do static wands work?	Paper, Film & Foil Converter	4	http://pffc-online.com/surface-prep/static-elimination/10313-static-beat-how-do-static-wands-work	Wound rolls of PET, BOPP, PE, and other insulators often have high levels of static that pose a shock risk to operators that cut end samples or handle the rolls	magazine	Paper Film Foil Converter	self					
9917		static;s-wrap	13-Jul-12	1	Robinson, Kelly	S-wrap rollers	Paper, Film & Foil Converter	4	http://pffc-online.com/surface-prep/static-elimination/10423-static-beat-s-wrap-rollers	Where can we install static bars so that the exiting web is static free? S-wrapped rollers usually are too close together to put a static bar between the rollers.	magazine	Paper Film Foil Converter	self					
9918		static;unwind	19-Sep-12	1	Robinson, Kelly	Unwinding Roll Tribocharging	Paper, Film & Foil Converter	4	http://pffc-online.com/surface-prep/static-elimination/10423-static-beat-s-wrap-rollers	Tribocharging at the unwinding nip can generate high levels of static in a roll-to-roll manufacturing process	magazine	Paper Film Foil Converter	self					
9882		static	22-Oct-12		Robinson, Kelly	Static Myth: That Roll Charged-Up on the Truck	AIMCAL Web Handling Conference, Myrtle Beach, Oct 22-23, 2012			Wound rolls do not spontaneously accumulate static charge. However, winding web measured to have low charge can have high static when unwound.	conference	AIMCAL	self				27-Jul-12	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
14156		static;control;wind;unwind	30-May-16	1	Robinson, Kelly	Suppress Static Sparks when Unwinding Release Liners and Laminated Webs	AIMCAL Europe Web Conf, Dresden, May 30 - June 2, 2016	4			conference	AIMCAL	self					
14141		static;control;wind;unwind	09-Sep-16	1	Robinson, Kelly	Controlling Static on Winding Rolls	AIMCAL Fall US Web Conf, Memphis, Sept 9-12, 2016	4			conference	AIMCAL	self					
10100		static	20-Oct-14		Robinson, Kelly Ph.D.	Static Control for Legacy Line	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014				conference	AIMCAL	self					
1526		duplex winder;film;foil;	11-Nov-73		Rochstrom, Len	Duplex Differential Rewinder Principles and Application	TAPPI Finishing and Converting Conf. Proc., 1973				conference	TAPPI						
1527		duplex winder;design	11-Nov-73	12	Rockstrom, Len	The Duplex Differential Rewinder Principles and Application	TAPPI Finishing and Converting Conf. Proc., 1973				conference	TAPPI						
1528	o	calender;nip;plasticity;FEM	14-Oct-88	9	Rodal, Jose J. A.	Soft-Nip Calendering of Paper and Paperboard	TAPPI Finishing and Converting Conf. Proc., Richmond, pp 77-86, Oct 2-6 1988				conference	TAPPI	Beloit					
1529		calender;cover	01-May-89		Rodal, Jose J. A.		Tappi J., vol 72, no 5, pp 177-, May 1989				magazine	TAPPI	Beloit					
1530		calender;nip;model	01-Sep-89		Rodal, Jose J. A.	Modelling the State of Stress and Strain in Soft Nip Calendering	9th Fundamental Research Symposium, Sep 1989						Beloit					
1531		calender;fem;model	01-Sep-89	26	Rodal, Jose J. A.	Modelling the State of Stress and Strain in Soft-Nip Calendering	Fundamentals of Papermaking, Transactions of the Ninth Fundamental Research Syumposium, Cambridge, Sept 1989						Beloit					

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1532		calender;fem; model	01-Oct-93		Rodal, Jose J. A.	Exploring Volume Change and Angular Distortion of Paper in a Calendering Nip	Pulp & Paper, vol 67, no 10, October 1993				magazine	Pulp and Paper	Beloit					
1533	o	calender;fem; model	24-Oct-93	20	Rodal, Jose J. A.	Paper Deformation in a Calendering Nip	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 321-350, Oct 24-27 1993	5	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5578&DID=523503	Numerical (finite-element) calculations of this deformation are presented. Paper is modeled as a porous, cellular, solid material. Stress and deformation results are discussed	conference	TAPPI	Beloit					
1534	o	calender;fem; model	01-Dec-93	11	Rodal, Jose J. A.	Paper Deformation in a Calendering Nip	Tappi J., vol 76, no 12, pp 63-74, Dec 1993				magazine	TAPPI	Beloit					
1535	o	calender;roll;cover;design	15-Oct-95	14	Rodal, Jose J. A.	Roll Covers in Soft-Nip Calendering and Supercalendering	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 1-14, Oct 15-18, 1995	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5460&DID=521776	Why have polymer covers reportedly taken 25% of the available positions in U.S. supercalenders away from conventional cotton-filled rolls?	conference	TAPPI	Beloit					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1536		surface;roughness;optical;pattern;coat	01-May-95	10	Rogowski, Donald F.	Identification and Elimination of Roughness Patterns in Coated Products	Tappi J., vol 78, no 5, May 1995	5	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4848&DID=518309	An apparatus and technique have been developed that allow roughness patterns in paper to be identified with the manufacturing-process components that imparted the patterns	magazine	TAPPI						
1537		corrugator;waste;study	01-Sep-94	9	Rohde, Elliot S.	True Measures of Corrugated Waste	Tappi J., vol 77, no 9, pp 32.25-32.33, September 1994				magazine	TAPPI						
6065		web_handling;literature	06-Apr-11		Roisum, David R	Dead Trees and Web Handling	ICE USA 2011 Tech Program	3			conference	ICE AIMCAL	self					
9851		roller;align	14-Jun-12		Roisum, David R	Roller Alignment - Standards	AIMCAL Web Handling Conference, Prague, Jun 14-15, 2012	5		roller alignment guidelines are almost nonexistent in the web industries and are largely confined to internal publications of but a few machine builders. These standards were based on what they COULD do rather than necessarily what they SHOULD do	conference	AIMCAL	self	RollerAlign Standards Roisum	RollerScan	doc	27-Jul-12	

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9852		roller;align	14-Jun-12		Roisum, David R	Roller Alignment - Mechanics	AIMCAL Web Handling Conference, Prague, Jun 14-15, 2012	5		This paper describes a number of instruments that can be used in the roller alignment process ranging from simple observation, to hand tools and finally to gyroscopes and optical tooling	conference	AIMCAL	self	RollerAlign Standards Mechanics	RollerScan	doc	27-Jul-12	
9873		roller;align	22-Oct-12		Roisum, David R	Roller Alignment - Standards	AIMCAL Web Handling Conference, Myrtle Beach, Oct 22-23, 2012	5		roller alignment guidelines are almost nonexistent in the web industries and are largely confined to internal publications of but a few machine builders. These standards were based on what they COULD do rather than necessarily what they SHOULD do	conference	AIMCAL	self	RollerAlign Standards Roisum	RollerScan	doc	27-Jul-12	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9874		roller;align	22-Oct-12		Roisum, David R	Roller Alignment - Mechanics	AIMCAL Web Handling Conference, Myrtle Beach, Oct 22-23, 2012	5		This paper describes a number of instruments that can be used in the roller alignment process ranging from simple observation, to hand tools and finally to gyroscopes and optical tooling	conference	AIMCAL	self	RollerAlign Standards Mechanics	RollerScan	doc	27-Jul-12	
9961	o	roller;alignment;wrinkle;web_break;model	02-Jun-13	14	Roisum, David R	Guidelines for allowable in-plane roller misalignment using wrinkling and web break models	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	4			conference	WHRC	self					
10062		roller;alignment;standards	08-Jun-14		Roisum, David R	Guidelines for Allowable in-plane Roller Misalignment Using Wrinkling and Web Break Models	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014	4			conference	AIMCAL	self					
10050		drive;overspeed;slitter;trim;differential_shaft	08-Jun-14		Roisum, David R	Overspeed in Web Manufacturing and Converting	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014	4			conference	AIMCAL	self					
10081		roller;spreader;tension;drive	20-Oct-14		Roisum, David R	The Role of Roller Traction and Drives in Spreading	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014	4			conference	AIMCAL	self					
10089		wind;telescope;defect;troubleshoot	20-Oct-14		Roisum, David R	Diagnosing the Wound Roll Telescope	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014	4			conference	AIMCAL	self					
14158		wind;core;defect	30-May-16	1	Roisum, David R	Good Winding Starts – The First 5 Seconds – Part 1 Web Handling	AIMCAL Europe Web Conf, Dresden, May 30 - June 2, 2016	3			conference	AIMCAL	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
14155		roller;maintenance;economics	30-May-16	1	Roisum, David R	Why, When and How to Repair/Replace Key Process Rollers	AIMCAL Europe Web Conf, Dresden, May 30 - June 2, 2016	4			conference	AIMCAL	self					
14137		wind;core;defect	09-Sep-16	1	Roisum, David R	Good Winding Starts – The First 5 Seconds – Part 1 Web Handling	AIMCAL Fall US Web Conf, Memphis, Sept 9-12, 2016	3			conference	AIMCAL	self					
14135		roller;maintenance;economics	09-Sep-16	1	Roisum, David R	Why, When and How to Repair/Replace Key Process Rollers	AIMCAL Fall US Web Conf, Memphis, Sept 9-12, 2016	4			conference	AIMCAL	self					
14100		data;acquisition;analog;digital;troubleshoot	#########	1	Roisum, David R.	How Can I Improve my Data Collection?	Converting Quarterly, qtr 4, 2015	4			magazine	AIMCAL	self					
5532		paper;properties;test;strength;modulus	01-Jan-85	1	Roisum, David R.	Paper Properties	Beloit R&D Report D85-032, pp 2, 1985	3			report	Beloit Corp	Beloit	PaperPropertiesRoisum	MiscScan	xls and pdf	17-Sep-09	
5694		winder;vibration;design;measurement;roller;balance;fft	01-Feb-85	104	Roisum, David R.	The Winder Vibration Book	Beloit internal report	5			Book	Beloit Corp	Beloit	WinderVibrationBookRoisum	VibrationScan	doc and pdf	01-Oct-09	
5617		runnability;paper;web_break;diagnostics	11-Feb-86	7	Roisum, David R.	Winder Web Break Diagnostics	Beloit Research Report, Feb 11, 1986	3			report	Beloit	Beloit	WinderWebBreakDiagnose	Runnability Scan	doc and pdf	26-Nov-09	
5619		runnability;paper;web_break;strength;fracture;flaw	19-May-86	24	Roisum, David R.	Runnability of Paper Report	Beloit Research Report, May 19, 1986	2			report	Beloit	Beloit	Runnability Paper	Runnability Scan	doc and pdf	26-Nov-09	
5618		runnability;paper;web_break;fracture;flaw	27-May-86	3	Roisum, David R.	Flaws Reduce Paper Strength	Beloit Research Report, May 27, 1986	2			report	Beloit	Beloit	FlawsReduceStrength	Runnability Scan	doc and pdf	26-Nov-09	
1676		history;winding;roll structure;winding;test;evaluate;stress	01-Oct-86	25	Roisum, David R.	A History of Paper Stresses During Winding.	TAPPI Finishing and Converting Conf. Proc. (Mobil), Oct 1986				conference	TAPPI	Beloit					
1700	o	wind;roll_structure;;stress;tension;nip;moisture	16-Mar-87	9	Roisum, David R.	Paper Stresses During Winding	Winding Technology Conf. Proc., Swedish Newsprint Research Center (TFL), Stockholm, Mar 16-171986				conference	STFL	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1710		winder;vibration;*	01-Oct-87	31	Roisum, David R.	Winder Vibration	TAPPI Finishing and Converting Conf. Proc., 1987				conference	TAPPI	Self					
5695		winder;vibration;design;measurement;roller;balance;fft	01-Jan-88	10	Roisum, David R.	Winder Vibration Can Reduce Operating Efficiency and Increase Maintenance	Tappi J., vol 71, no 1, pp 87-96, Jan 1988	4			magazine	TAPPI	Beloit	WinderVibrationRoisum	VibrationScan	doc and pdf	03-Oct-09	
1715	o	winding;roll structure;stress;measurement;model	01-Apr-88	66	Roisum, David R.	The Measurement of Web Stresses During Roll Winding	OK. State Univ., WHRC, Ph.D. Preliminary Exam					WHRC	Self					
1732	o	whrc;resource;directory	01-May-88	40	Roisum, David R.	Web Handling Resource Directory	OK. State Univ., WHRC, Internal Report				report	WHRC	Self					
1739	o	winding;roll structure;stress;measurement	01-Oct-88	13	Roisum, David R.	How to Measure Roll Quality	OK. State Univ., WHRC,Internal Report				report	WHRC	Self					
5811		wind;measure;hardness;wit;cameron;quality	01-Oct-88	13	Roisum, David R.	How to measure roll quality	Tappi J., vol 71, no 10, pp 91-103, Oct 1988	4			magazine	TAPPI	Self	RollQualityMeasureRoisum	WindMeasureScan	doc and pdf	21-Sep-09	
1740	o	winding;roll structure;stress;measurement	06-Oct-88	13	Roisum, David R.	Roll Quality Measurement	TAPPI Finishing and Converting Conf. Proc., pp 179-198, Richmond, October 2-6, 1988				conference	TAPPI	Self					
1745	o	winding;roll structure;stress;measurement;model	01-Jun-89	211	Roisum, David R.	The Measurement of Web Stresses During Roll Winding	OK. State Univ., WHRC, Ph.D. Qualifying Exam					WHRC	Self					
1747	o	runnability	01-Oct-89	19	Roisum, David R.	Runnability of Paper	TAPPI Finishing and Converting Conf. Proc., Kansas City MO, pp 41-58, Oct 1-5 1989				conference	TAPPI	Self					
1756		runnability	01-Jan-90		Roisum, David R.	Runnability of Paper Part I - Predicting Runnability	Tappi J., vol 73, no 1, pp 97-101, Jan 1990	5			magazine	TAPPI	Self	RunnabilityPaperRoisum	RunnabilityScan	doc and pdf	26-Nov-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5616		runnability;paper;web_break;strength;tension	01-Jan-90	12	Roisum, David R.	Runnability of Paper Part I Prediciting and Part II Troubleshooting	Tappi J., vol 73, no 1, pp 97-101, Jan 1990 and Tappi J., vol 73, no 2, pp 101-106, Feb 1990	5			magazine	TAPPI	Self	RunnabilityPaperRoisum	RunnabilityScan	doc and pdf	26-Nov-09	
1765		runnability	01-Feb-90		Roisum, David R.	Runnability of Paper Part II - Troubleshooting of Web Breaks	Tappi J., vol 73, no 2, pp 101-106, Feb 1990	5			magazine	TAPPI	Self	RunnabilityPaperRoisum	RunnabilityScan	doc and pdf	26-Nov-09	
1777	o	whrc;thesis;wind;model;roll_structure;density;present	01-May-90	40	Roisum, David R.	The Measurement of Web Stresses During Roll Winding (presentation)	OK. State Univ., WHRC, Internal Report				report	WHRC	Self					
1778	o	winding;roll structure;stress;measurement;model	01-May-90	351	Roisum, David R.	The Measurement of Web Stresses During Roll Winding	OK. State Univ., WHRC, Ph.D. Thesis				thesis	WHRC	Self					
1829	o	wind;model;density	19-May-91	14	Roisum, David R.	Wound Roll Stresses from Displacement Measurements	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 17-31, May19-22 1991					WHRC	Self					
5547		moisture;diffusion	18-Oct-92	15	Roisum, David R.	Moisture Effects on Webs and Rolls	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 37-52, Oct 18-21 1992	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5630&DID=516959	the profound effects of these changing web/roll/box moistures on material properties and converting operations will be described. In Part II of this article, a simple diffusion model is derived	conference	TAPPI	Self	MoistureEffectsRoisumFC	MoistureScan	doc and pdf	16-Sep-09	
5548		moisture;diffusion	01-Jun-93	9	Roisum, David R.	Moisture Effects on Webs and Rolls	Tappi J., vol 76, no 6, pp 129-138, June 1993	4			magazine	TAPPI	Self	MoistureEffectsRoisumTJ	MoistureScan	doc and pdf	16-Sep-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1896	o	spread;design	06-Jun-93	39	Roisum, David R.	The Mechanics of Web Spreading	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC	Self					
1897	o	spread;design	01-Oct-93	8	Roisum, David R.	The Mechanics of Web Spreading - Part 1	Tappi J., vol 76, no 10, pp 63-70, Oct 1993	4		bowed rollers, dual bowed rollers, concave rollers, expander rollers, D-bars and more. Also covered are spreader design considerations and troubleshooting techniques	magazine	TAPPI	Self	Mechanics SpreadRoisum	SpreadWrinkleScan	doc and pdf	26-Nov-09	
1898	o	spreader;design;wrinkle	24-Oct-93	21	Roisum, David R.	The Mechanics of Web Spreading	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 87-108, Oct 24-27 1993	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5578&DID=523513	bowed rollers, dual bowed rollers, concave rollers, expander rollers, D-bars and more. Also covered are spreader design considerations and troubleshooting techniques	conference	TAPPI	Self	Mechanics SpreadRoisum	SpreadWrinkleScan	doc and pdf	26-Nov-09	
1899	o	spread;design	01-Dec-93	12	Roisum, David R.	The Mechanics of Web Spreading - Part 2	Tappi J., vol 76, no 12, pp 75-86, Dec1993	4		bowed rollers, dual bowed rollers, concave rollers, expander rollers, D-bars and more. Also covered are spreader design considerations and troubleshooting techniques	magazine	TAPPI	Self	Mechanics SpreadRoisum	SpreadWrinkleScan	doc and pdf	26-Nov-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1900	o	web_handling	01-Jan-94	1	Roisum, David R.	Web Works column introduction	Converting Magazine, Web Works column, pp 16, January 1994				magazine	Converting Magazine	Self					
5445		book;wind;model;quality;measurement;stresses;design;time_cycle	01-Jan-94	246	Roisum, David R.	The Mechanics of Winding	TAPPI PRESS, Atlanta GA, 1994	10	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=9042&DID=520802	basics through advanced winding theory. Written as a practical, comprehensive guide, the book attempts to show not only how to troubleshoot winding problems and wound roll defects, but also why these problems occur	Book	TAPPI	Self	Mechanics WindingRoisum	BooksRoisum	doc and pdf	23-Oct-09	
1901	o	wrinkle	01-Feb-94	1	Roisum, David R.	Why is My Web Wrinkled?	Converting Magazine, Web Works column, pp 16, February 1994				magazine	Converting Magazine	Self					
1902	o	wrinkle	01-Mar-94	1	Roisum, David R.	What Causes Machine Direction Trough Wrinkles?	Converting Magazine, Web Works column, pp 22, March 1994				magazine	Converting Magazine	Self					
1903	o	wrinkle;baggy_web	01-Apr-94	1	Roisum, David R.	What Causes a Baggy Web?	Converting Magazine, Web Works column, pp 22, April 1994				magazine	Converting Magazine	Self					
1905	o	nip;roller	01-Jun-94	3	Roisum, David R.	The Profile of a Nip	Converting Magazine, Technical Report, pp 44-46, June 1994				magazine	Converting Magazine	Self					
1904	o	wrinkle;shear;nip;misalign	01-Jun-94	1	Roisum, David R.	What Causes Diagonal Shear Wrinkles?	Converting Magazine, Web Works column, pp 22, June 1994				magazine	Converting Magazine	Self					
1906	o	time_cycle;productivity	01-Jul-94	1	Roisum, David R.	How can I Improve Productivity	Converting Magazine, Web Works column, pp 22, July 1994				magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1907	o	time_cycle;productivity;measure	01-Aug-94	1	Roisum, David R.	How can I Improve Productivity	Converting Magazine, Web Works column, pp 24, August 1994				magazine	Converting Magazine	Self					
1909	o	waste;efficiency;trim	01-Sep-94	1	Roisum, David R.	How can I Reduce Waste	Converting Magazine, Web Works column, pp 20, September 1994				magazine	Converting Magazine	Self					
1910	o	operator;ergonomics;training	01-Oct-94	1	Roisum, David R.	How can I Improve My Workforce	Converting Magazine, Web Works column, pp 16, October 1994				magazine	Converting Magazine	Self					
5767		wind;crepe_wrinkle;burst;cigar;newsprint;lwc;nip_induced_defect	01-Oct-94	7	Roisum, David R.	Nip Induced Defects of Wound Rolls	TAPPI Finishing and Converting Conf. Proc., Chicago, pp 89-98, October 2-5, 1994	5	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5515&DID=522862	These nip induces defects include: bursts, corrugations, crepe wrinkles, tears, and many more.	conference	TAPPI	Self	NipInduced Defects	WindGeneralScan	doc and pdf	26-Nov-09	
5666		spread;concave;compliant_cover;bowed_roller;d-bar;dual_bowed_roller;Pos-Z;expander;tenter	01-Oct-94	20	Roisum, David R.	The Mechanics of web spreading: parts 1 and 2	Tappi J, vol 76, no 10, pp 63-70, Oct 1994 and Tappi J, vol 76, no 11, pp 75-85, Nov 1994	5		bowed rollers, dual bowed rollers, concave rollers, expander rollers, D-bars and more. Also covered are spreader design considerations and troubleshooting techniques	magazine	TAPPI	Self	Mechanics SpreadRoisum	SpreadWrinkleScan	doc and pdf	26-Nov-09	
1912	o	tension;roller;guide;break;design	01-Nov-94	1	Roisum, David R.	What Tension Should I Run	Converting Magazine, Web Works column, pp 20, November 1994				magazine	Converting Magazine	Self					
1913	o	tension;load_cell;measurement;design	01-Dec-94	1	Roisum, David R.	How do I Measure Web Tension	Converting Magazine, Web Works column, pp 16, December 1994				magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1914	o	tension;dancer;measurement	01-Jan-95	1	Roisum, David R.	How do Dancers Work	Converting Magazine, Web Works column, pp 16, January 1995				magazine	Converting Magazine	Self					
1915	o	tension;draw;drive;measurement	01-Feb-95	1	Roisum, David R.	How does Draw Control Work	Converting Magazine, Web Works column, pp 16, February 1995				magazine	Converting Magazine	Self					
5812		wind;tissue;roll;bulk;density;firmness;desgin	22-Feb-95	11	Roisum, David R.	Bulk and Firmness: A Product and Process Design Science	Tissue Technology Symposium Conf. Proc. hosted by Paper Converting Machine Co., Green Bay, Feb 22-23, 1995	4			conference	TAPPI	Self	BulkFirmTissueRoisum	WindMeasureScan	doc and pdf	26-Nov-09	
1918	o	roller;design;deflection;tension	01-Mar-95	3	Roisum, David R.	A Guide to Roller Sizing and Selection	Converting Magazine, pp 48-50, March 1995				magazine	Converting Magazine	Self					
1917	o	tension;strain;laminate;curl	01-Mar-95	1	Roisum, David R.	How Can I Reduce Laminator Curl?	Converting Magazine, Web Works column, pp 22, March 1995				magazine	Converting Magazine	Self					
1919	o	tension;strain;baggy;curl	01-Apr-95	1	Roisum, David R.	How Can I Fix a Baggy Web	Converting Magazine, Web Works column, pp 20, April 1995				magazine	Converting Magazine	Self					
1920	o	tension;strain;length;measure	01-Jun-95	1	Roisum, David R.	What is the Best Way to Measure Length	Converting Magazine, Web Works column, pp 22, June 1995				magazine	Converting Magazine	Self					
1921	o	roller;design	18-Jun-95	8	Roisum, David R.	The 10 Commandments of Web Machine Design	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC	Self					
1922	o	tension;strain;width;measure;wind	01-Jul-95	1	Roisum, David R.	How Can I Control Width Accurately?	Converting Magazine, Web Works column, pp 20, July 1995				magazine	Converting Magazine	Self					
1923	o	roller;groove;air_entrain;calculation;design	01-Aug-95	1	Roisum, David R.	Why Are My Rollers Grooved?	Converting Magazine, Web Works column, pp 26, August 1995				magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1925	o	static_electricity	01-Sep-95	3	Roisum, David R.	Easy Ways to Keep Static Under Control	Converting Magazine, pp 38-40, September 1995				magazine	Converting Magazine	Self					
1924	o	roller;traction;nip;drive	01-Sep-95	1	Roisum, David R.	Do I Need a Nip for Traction	Converting Magazine, Web Works column, pp 22, September 1995				magazine	Converting Magazine	Self					
1926	o	roller;inertia;tension;design	01-Oct-95	1	Roisum, David R.	Composite Low Inertia Rollers	Converting Magazine, Web Works column, pp 24, October 1995				magazine	Converting Magazine	Self					
5585		roller;design;deflection;stress;tension;vibration	01-Oct-95	6	Roisum, David R.	The Ten Commandments of Web Machine Design	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 113-118, Oct 15-18, 1995	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5460&DID=521777	discussions of alignment, deflection, geometry, surfaces, traction, and tension control. Design criteria for sizing and tolerancing rollers will be given which are based on web handling mechanics	conference	TAPPI	Self	TenCommandmentRoller	RollerScan	doc and pdf	26-Nov-09	
1927		spread;wrinkle	02-Oct-95		Roisum, David R.	Web Spreading	AIMCAL 1995 Fall Tech. Conf. Proc., Atlanta, Oct 2-4, 1995					AIMCAL	Self					
1929		spread;wrinkle	01-Nov-95	3	Roisum, David R.	The Well-Proven Principles of Web Spreading	Converting Magazine, pp 60-64, November 1995				magazine	Converting Magazine	Self					
1930	o	roller;alignment;maintenance;wrinkle	01-Nov-95	1	Roisum, David R.	How Can I Align My Machine?	Converting Magazine, Web Works column, pp 24, November 1995				magazine	Converting Magazine	Self					
1931	o	magazine;book;seminar;information	01-Dec-95	1	Roisum, David R.	Where can I learn about Web Handling?	Converting Magazine, Web Works column, pp 20, December 1995				magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1932	o	roller;size;design	01-Jan-96	1	Roisum, David R.	How Big Should My Rollers Be?	Converting Magazine, Web Works column, pp 24, January 1996.				magazine	Converting Magazine	Self					
5446		book;roller;deflection;stress;vibration;design;tension;spreader;guide;standard	01-Jan-96	319	Roisum, David R.	The Mechanics of Rollers	TAPPI PRESS, Atlanta GA, 1996	10	http://www.tappi.org/s_tappi/docbookstore.asp?CID=9042&DID=520959	combines the science of web handling with the application of rollers. This unique book covers design, application, and maintenance for rollers of all sizes, shapes, and webs	Book	TAPPI	Self	Mechanics RollersRoisum	BooksRoisum	doc and pdf	18-Oct-09	
1933	o	roller;wrap;traction;design	01-Feb-96	1	Roisum, David R.	How Much Wrap do I Need on My Rollers	Converting Magazine, Web Works column, pp 22, February 1996				magazine	Converting Magazine	Self					
1934	o	roller;web_span	01-Mar-96	1	Roisum, David R.	What is the Best Spacing Between Rollers	Converting Magazine, Web Works column, March 1996				magazine	Converting Magazine	Self					
1935	o	nonwoven;web_handle;roller	11-Mar-96	5	Roisum, David R.	The Care and Handling of Nonwovens	TAPPI Nonwovens Conf. Proc., pp 59-63, Charlotte NC, March 11-13, 1996	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5417&DID=508323	Though nonwovens can be quite strong, they are surprisingly easy to deform and damage by handling. This damage may result in bagginess, camber or layflat problems. Also, the product may display an uneven bulk, caliper, or loft	conference	TAPPI	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1936		web_handling;roller;alignment	27-Mar-96	10	Roisum, David R.	The 10 Commandments of Web Machine Design	CEMA Conf, The Coating and Laminating Process, March 27-28, 1996				conference	CEMA	Self					
1937	o	flutter	01-Apr-96	1	Roisum, David R.	How Can I Reduce Web Flutter	Converting Magazine, Web Works column, pp 24, April 1996				magazine	Converting Magazine	Self					
1938	o	tissue;wind;bulk;firmness;design	26-May-96	11	Roisum, David R.	Bulk and Firmness - A Product and Process Design Science	TAPPI Tissue Runnability Shortcourse, Perdido Beach, AL, May 21-23, 1996				shortcourse	TAPPI	Self					
1941	o	web;inspection;scanner;instrument;measure	01-Jul-96	2	Roisum, David R.	The Marvel of On-line Web Inspection	Converting Magazine, pp 40, July 1996				magazine	Converting Magazine	Self					
1940	o	drive;design	01-Jul-96	1	Roisum, David R.	When and Where Do I Need a Drive?	Converting Magazine, Web Works column, pp 24, July 1996				magazine	Converting Magazine	Self					
1942	o	width;speed;market;design	01-Aug-96	2	Roisum, David R.	Should I Consider Installing a Wider or Faster Machine?	Converting Magazine, Web Works column, pp 42 & 44, August 1996				magazine	Converting Magazine	Self					
1943	o	drive;control	01-Sep-96	2	Roisum, David R.	Progressive Web Machine Controls Provide Options	Converting Magazine, pp 110-111, Sept 1996				magazine	Converting Magazine	Self					
1944	o	drive;spec;design;test	01-Sep-96	1	Roisum, David R.	Is My Drive Healthy?	Converting Magazine, Web Works column, pp 28, September 1996				magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1945	o	wrinkling;mechanics;spread	08-Sep-96	12	Roisum, David R.	The Mechanics of Wrinkling	TAPPI Polymers, Laminations and Coatings Conf. Proc., pp 463-473, Boston, Sept 8-12, 1996	5	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5426&DID=521200	This paper shows how all wrinkling is a compressive buckling of the web induced by either CD compression or in-plane shear stresses. Common causes of wrinkling are then discussed	conference	TAPPI	Self	Mechanics WrinkleRoisum	SpreadWrinkleScan	doc and pdf	26-Nov-09	
1947	o	machine;design;vibration;standard	01-Oct-96	1	Roisum, David R.	How Much Vibration is Too Much?	Converting Magazine, Web Works column, pp 22, October 1996				magazine	Converting Magazine	Self					
5667		wrinkle;md;expansion;shear;baggy;buckle	01-Oct-96	10	Roisum, David R.	The Mechanics of wrinkling	Tappi J, vol 79, no 10, pp 63-70, Oct 1996 and Tappi J, vol 79, no 10, pp 217-226, Oct 1996	5		This paper shows how all wrinkling is a compressive buckling of the web induced by either CD compression or in-plane shear stresses. Common causes of wrinkling are then discussed	magazine	TAPPI	Self	Mechanics WrinkleRoisum	SpreadWrinkleScan	doc and pdf	26-Nov-09	
1946	o	wrinkle;spread;troubleshoot	01-Oct-96	10	Roisum, David R.	The Mechanics of Wrinkling	Tappi J., vol 79, no 10, pp 217-226, October 1996	5	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4756&DID=518538	This paper shows how all wrinkling is a compressive buckling of the web induced by either CD compression or in-plane shear stresses. Common causes of wrinkling are then discussed	magazine	TAPPI	Self	Mechanics WrinkleRoisum	SpreadWrinkleScan	doc and pdf	26-Nov-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1948	o	wrinkle;trouble shoot	06-Oct-96	12	Roisum, David R.	The Mechanics of Wrinkling	TAPPI Finishing and Converting Conf. Proc., Bal Harbor, FL, pp 99-110, Oct 6-9, 1996	5	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5386&DID=521558	This paper shows how all wrinkling is a compressive buckling of the web induced by either CD compression or in-plane shear stresses. Common causes of wrinkling are then discussed	conference	TAPPI	Self	Mechanics WrinkleRoisum	SpreadWrinkleScan	doc and pdf	26-Nov-09	
1949	o	machine;design;vibration	01-Nov-96	1	Roisum, David R.	How Can I Reduce Vibration?	Converting Magazine, Web Works column, pp 24, November 1996				magazine	Converting Magazine	Self					
1950	o	spreader;application	01-Dec-96	1	Roisum, David R.	Is My Spreader Roller Working?	Converting Magazine, Web Works column, pp 24, December 1996				magazine	Converting Magazine	Self					
1951	o	process;control;measurement	01-Jan-97	2	Roisum, David R.	Should I Question the Value of Process Controls?	Converting Magazine, Web Works column, pp 20 & 64, January 1997				magazine	Converting Magazine	Self					
1952	o	bowed_roll;spreader;troubleshoot	01-Feb-97	1	Roisum, David R.	Why Isn't My Bowed Roller Spreading the Web?	Converting Magazine, Web Works column, pp 26, February 1997				magazine	Converting Magazine	Self					
1953	o	slitting;method;selection	01-Mar-97	1	Roisum, David R.	What is the Best Slitting Method?	Converting Magazine, Web Works column, pp 38, March 1997				magazine	Converting Magazine	Self					
1954	o	slitting;laser;razor	01-Apr-97	1	Roisum, David R.	How are Laser and Razor Slitters Used?	Converting Magazine, Web Works column, pp 38, April 1997				magazine	Converting Magazine	Self					
1956	o	automation	01-May-97	3	Roisum, David R.	Process Automation = a Quality Web Product	Converting Magazine, pp 36-39, May 1997				magazine	Converting Magazine	Self					
1955	o	slitting;score	01-May-97	1	Roisum, David R.	How can I Improve the Performance of a Score Slitter?	Converting Magazine, Web Works column, pp 24, May 1997				magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1958	o	winding;defect	01-Jun-97		Roisum, David R.	Reading a Roll	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC	Self					
1957	o	shear;slitter;selection	01-Jun-97	1	Roisum, David R.	What is the Best Type of Shear Slitter?	Converting Magazine, Web Works Column, pp 34, June 1997				magazine	Converting Magazine	Self					
1959	o	shear;slitter;maintenance	01-Jul-97	1	Roisum, David R.	How do I set up a Shear Slitter?	Converting Magazine, Web Works Column, pp 30, July 1997				magazine	Converting Magazine	Self					
1960	o	contacts;machine_design;selection	01-Jul-97	2	Roisum, David R.	How to develop Contacts and rate machine builders	Converting Magazine, Web Works Column, pp 50-51, July 1997				magazine	Converting Magazine	Self					
1961	o	waste;delay;cost;productivity	01-Aug-97	3	Roisum, David R.	Waste is not a dirty word	Converting Magazine, pp 64-66, Aug 1997				magazine	Converting Magazine	Self					
1962	o	slit;trim;waste	01-Aug-97	1	Roisum, David R.	How do I get rid of edge trim?	Converting Magazine, Web Works Column, pp 30, August 1997				magazine	Converting Magazine	Self					
1963	o	edge;offset;roller	01-Sep-97	1	Roisum, David R.	Why does my web move sideways during speed changes?	Converting Magazine, Web Works Column, pp 32, September 1997				magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1964	o	wind;defect;diagnose	21-Sep-97	8	Roisum, David R.	Reading a Roll	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 79-86, September 21-24, 1997	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5326&DID=511805	cylindricity deviations are a fingerprint of the cause of the defect.This paper shows how to read a roll's history by diametral variations across its width, radial variances around the periphery, and variations in width or cross direction position	conference	TAPPI	Self	ReadRollRoisum	WindGeneralScan	doc and pdf	26-Nov-09	
1965	o	wind;defect;diagnose	01-Oct-97	1	Roisum, David R.	Why is my roll's edge rough?	Converting Magazine, Web Works Column, pp 28, October 1997				magazine	Converting Magazine	Self					
1966	o	wind;defect;telescope	01-Nov-97	1	Roisum, David R.	What causes a roll to telescope?	Converting Magazine, Web Works Column, pp 30, November 1997				magazine	Converting Magazine	Self					
1967	o	wind;defect;corrugation;caliper	01-Dec-97	1	Roisum, David R.	What causes a roll corrugation?	Converting Magazine, Web Works Column, pp 30, December 1997				magazine	Converting Magazine	Self					
1968	o	wind;defect;star;buckle	01-Jan-98	1	Roisum, David R.	What causes a roll to star or buckle?	Converting Magazine, Web Works Column, vol 16, no 1, pp 22, January 1998				magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5447		book;web_handling;tension;roller;guide;wrinkle;web_break;align;wrinkle	01-Jan-98	232	Roisum, David R.	The Mechanics of Web Handling	TAPPI PRESS, Atlanta, 1998	10	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=9042&DID=520817	how to design and operate machinery to avoid wrinkles, web breaks, registration, guiding, and other types of costly web problems. 1998. 222 pages, soft cover.	Book	TAPPI	Self	Mechanics WebHandling	BooksRoisum	doc and pdf	23-Oct-09	
1969	o	wind;defect;air_entrain;layon_roller	01-Feb-98	1	Roisum, David R.	How can I keep air out of my wound roll?	Converting Magazine, Web Works Column, vol 16, no 2, pp 32, February 1998				magazine	Converting Magazine	Self					
1970	o	wind;defect;roundness;handling	01-Mar-98	1	Roisum, David R.	How can I keep my wound roll round?	Converting Magazine, Web Works Column, vol 16, no 3, pp 34, March 1998				magazine	Converting Magazine	Self					
1972	o	machine;control;design;units	01-Apr-98	1	Roisum, David R.	What does percentage mean on my control benchboard	Converting Magazine, Web Works Column, vol 16, no 4, pp 34, April 1998				magazine	Converting Magazine	Self					
5766		wind;roll;defect;inspection	01-Apr-98	7	Roisum, David R.	Reading a Roll	TAPPI J, vol 81, no 4, pp 205-210, April 1998	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4763&DID=518799	cylindricity deviations are a fingerprint of the cause of the defect.This paper shows how to read a roll's history by diametral variations across its width, radial variances around the periphery, and variations in width or cross direction position	magazine	TAPPI	Self	ReadRollRoisum	WindGeneralScan	doc and pdf	26-Nov-09	

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1973	o	wrinkle;trouble shoot;diagnos e	18-Apr-98	6	Roisum, David R.	Wrinkling of Thin Webs	Soc of Vacuum Coaters, Proc, pp 406-411, Boston, April 18-23, 1998.						Self					
1974	o	machine;contr ol;design;ergo nomics	01-May-98	1	Roisum, David R.	Are my Controls Ergonomic?	Converting Magazine, Web Works Column, vol 16, no 5, pp 38, May 1998				magazine	Converting Magazine	Self					
1976	o	machine;contr ol;pneumatic;d esign;maintain	01-Jun-98	1	Roisum, David R.	Are my pneumatic controls healthy	Converting Magazine, Web Works Column, vol 16, no 6, pp 30, June 1998				magazine	Converting Magazine	Self					
1977	o	control;data_a cquition;comp uter	01-Jul-98	2	Roisum, David R.	Plant-Wide Information Systems are the Future	Converting Magazine, Web Works Column, vol 16, no 7, pp 58, 60, July 1998				magazine	Converting Magazine	Self					
5696		tissue:winder;v ibration;materi al_property	01-Aug-98	4	Roisum, David R.	Tissue Winder Vibration	Perini J., volume 13, no 8, pp 33-36, August 1998	5			magazine	Perini J	Self	TissueWin derVibratio nRoisum	VibrationSc an	doc and pdf	03-Oct-09	
1980	o	project;manag ement	01-Sep-98	1	Roisum, David R.	How Should I Define the Goals of My Project	Converting Magazine, Web Works Column, vol 16, no 9, pp 38, September 1998				magazine	Converting Magazine	Self					
1983	o	project;manag ement	01-Oct-98	1	Roisum, David R.	What does it take to be a good problem-solver?	Converting Magazine, Web Works Column, vol 16, no 9, pp 36, September 1998				magazine	Converting Magazine	Self					
3675	o	wind;TNT;cont rol	01-Oct-98	1	Roisum, David R.	What do I need to know about accumulators	Converting Magazine, Web Works Column, vol 26, no 10, pp 76, Oct 2008				magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5533		critical_thinking;problem_solving;troubleshooting	01-Oct-98	6	Roisum, David R.	Critical Thinking in Converting	Tappi J vol 81, n0 10, pp 93-98, Oct 1998	3	http://www.tappi.org/s_tappi/sec publications.asp?CID=4767&DID=514234	In any manufacturing plant, there are so many opportunities vying for our attention that picking our battles is almost as important as fighting them	magazine	TAPPI	Self	CriticalThinkingRoisum	MiscScan	doc and pdf	26-Nov-09	
1982	o	critical_thinking;converting	04-Oct-98	8	Roisum, David R.	Critical Thinking in Converting	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 75-82, October 4-8, 1998	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5255&DID=509162	Problem solving steps include problem definition, determining options, decision making and execution. Also discussed are problem solving pitfalls	conference	TAPPI	Self	CriticalThinkingRoisum	MiscScan	doc and pdf	26-Nov-09	
2534	o	problem_solving	01-Nov-98	1	Roisum, David R.	What are your favorite problem solving techniques?	Converting Magazine, Web Works Column, vol 16, no 11, pp 26, November 1998				magazine	Converting Magazine	Self					
2541	o	drive;tension;speed;accel	01-Dec-98	1	Roisum, David R.	Why doesn't my machine start and stop gracefully?	Converting Magazine, Web Works Column, vol 16, no 12, pp 26, December 1998				magazine	Converting Magazine	Self					
2543	o	foundation, design, vibration	01-Jan-99	1	Roisum, David R.	What type of foundation is best for my machine?	Converting Magazine, Web Works Column, vol 17, no 1, pp 32, January 1999				magazine	Converting Magazine	Self					
2547	o	baggy;web;tension	01-Feb-99	1	Roisum, David R.	Why are my web's edges baggy?	Converting Magazine, Web Works Column, vol 17, no 2, pp 30, February 1999				magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2551	o	caliper;gage;ridges	01-Mar-99	1	Roisum, David R.	Why does my wound roll have ridges	Converting Magazine, Web Works Column, vol 17, no 3, pp 44, March 1999				magazine	Converting Magazine	Self					
2559	o	people;operator;productivity	01-Apr-99	1	Roisum, David R.	Are my machine operators operating proficiently	Converting Magazine, Web Works Column, vol 17, no 4, pp 52, April 1999				magazine	Converting Magazine	Self					
2568	o	thin;caliper;wrinkle;air;product_design	01-May-99	4	Roisum, David R.	Thin Materials: Pushing Web Handling to the Limit	Converting Magazine, vol 17, no 5, pp 72-76, May 1999				magazine	Converting Magazine	Self					
2567	o	people;mechanic;skill	01-May-99	1	Roisum, David R.	Are my mechanics masterful?	Converting Magazine, Web Works Column, vol 17, no 5, pp 32, May 1999				magazine	Converting Magazine	Self					
2569	o	people;electrical;skill	01-Jun-99	1	Roisum, David R.	Are my electricians energized?	Converting Magazine, Web Works Column, vol 17, no 6, pp 36, June 1999				magazine	Converting Magazine	Self					
2625	o	control;crt;computer;benchboard;ergonomics;design	01-Jul-99	3	Roisum, David R.	Has the novelty of modern displays outworn their welcome?	Converting Magazine, Web Works Column, vol 17, no 7, pp 40-42, July 1999				magazine	Converting Magazine	Self					
2629	o	roller;scratch;mark;deform	01-Aug-99	1	Roisum, David R.	How can I keep rollers from marking my web?	Converting Magazine, Web Works Column, vol 17, no 8, pp 24, August 1999				magazine	Converting Magazine	Self					
2634	o	calender;roller;wrinkling	01-Sep-99	1	Roisum, David R.	Why is my calender roll wrinkling my web?	Converting Magazine, Web Works Column, vol 17, no 9, pp 34, September 1999				magazine	Converting Magazine	Self					
2676	o	roll;telescope;storage;adhesive	01-Oct-99	1	Roisum, David R.	Why do my wound rolls telescope during storage?	Converting Magazine, Web Works Column, vol 17, no 10, pp, October 1999				magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2639	o	winder;design_spec;fallacy	01-Oct-99	6	Roisum, David R.	Winder Wisdom	Tappi J., vol 82, no 10, pp 86-91, October 1999	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4759&DID=517751	teachings and shows how they may not always be helpful. In some cases, it is because a teaching yields benefit only in very narrow circumstances and has been applied too generally	magazine	TAPPI	Self	WinderWisdom	WindGeneralScan	doc	05-Feb-10	
2655	o	winder;roller;fallacy;design	03-Oct-99	8	Roisum, David R.	Winder Wisdom	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 189-196, October 3-7, 1999	4	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=5187&DID=508489	teachings and shows how they may not always be helpful. In some cases, it is because a teaching yields benefit only in very narrow circumstances and has been applied too generally	conference	TAPPI	Self	WinderWisdom	WindGeneralScan	doc	05-Feb-10	
2677	o	roll;dish;telescope	01-Nov-99	1	Roisum, David R.	Why do my rolls dish during winding	Converting Magazine, Web Works Column, vol 17, no 11, pp 30, November 1999				magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2668	o	critical_think;troubleshoot;problem_definition	01-Nov-99	1	Roisum, David R.	Where Do Problems Come From?	Tappi J., vol 82, no 11, pp 57, November 1999	2	http://www.tappi.org/s_tappi/sec publications.asp?CID=4758&DID=514205	The root of all problems, even technical ones,is people. Someone is not satisfied with something. That someone could be ourselves, our customers, bosses, colleagues, friends	magazine	TAPPI	Self					
2678	o	drive;master;speed	01-Dec-99	1	Roisum, David R.	What is the master speed reference	Converting Magazine, Web Works Column, vol 17, no 12, pp 46, December 1999				magazine	Converting Magazine	Self					
2679	o	drive;stop;design	01-Jan-00	1	Roisum, David R.	Are there different ways of stopping a machine?	Converting Magazine, Web Works Column, vol 18, no 1, pp 30, January 2000				magazine	Converting Magazine	Self					
5450		book;winding;web_handling;tension;roller;guide;wrinkle;web_break;align;wrinkle	01-Jan-00	428	Roisum, David R.	Web Words / Web Works	TAPPI PRESS, Atlanta, 2002	10	http://www.tappi.org/s_tappi/doc.asp?CID=197&DID=513247	compilation of the popular Web Works columns written by David R. Roisum from 1994 to January 2000. The book offers more than 100 pages of useful advice	Book	Converting Magazine and TAPPI	Self	WebWords Complete	BooksRoisumDrafts	doc	23-Oct-09	
2689	o	drive;draw;control	01-Feb-00	1	Roisum, David R.	Are there dangers with draw control?	Converting Magazine, Web Works Column, vol 18, no 2, February 2000				magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2686	o	critical_think;troubleshoot;observation	01-Feb-00	1	Roisum, David R.	Good Gravy, Davy	Tappi J., vol 83, no 2, pp 54, February 2000	2	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4774&DID=514251	my father on more than a few occasions. In fact, he said it so often and at the most embarrassing times that I grew to resent the remark. It would usually be precipitated by		TAPPI	Self					
2690	o	drive;dancer;control	01-Mar-00	1	Roisum, David R.	Are there dangers with dancer control?	Converting Magazine, Web Works Column, vol 18, no 3, pp 46, March 2000				magazine	Converting Magazine	Self					
2701	o	wind;air_entrain;nip	01-Apr-00	1	Roisum, David R.	Keeping the air out	Converting Magazine, Slitter-Rewinder supplement, pp 16, April 2000				magazine	Converting Magazine	Self					
2700	o	slitting;application	01-Apr-00	1	Roisum, David R.	Choosing the best slitting method.	Converting Magazine, Slitter-Rewinder supplement, pp 6, April 2000				magazine	Converting Magazine	Self					
2702	o	drive;load_cell;tension;;control	01-Apr-00	1	Roisum, David R.	How are load cells properly used?	Converting Magazine, Web Works Column, vol 18, no 4, pp 36, April 2000				magazine	Converting Magazine	Self					
2710	o	bowed;spreader;design	01-May-00	1	Roisum, David R.	Can there be too much bow on a spreader?	Converting Magazine, Web Works Column, vol 18, no 5, pp 44, May 2000				magazine	Converting Magazine	Self					
2716	o	roller;crown,deflection;spread;guide	01-Jun-00	1	Roisum, David R.	When should crowned rollers be used?	Converting Magazine, Web Works Column, vol 18, no 6, pp 30, June 2000				magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2719	o	roller;crown,concave,;spread;guide	01-Jul-00	1	Roisum, David R.	When should reverse crown rollers be used	Converting Magazine, Web Works Column, vol 18, no 7, pp 24, July 2000				magazine	Converting Magazine	Self					
2726	o	roller;crown,concave,;spread;guide	01-Aug-00	1	Roisum, David R.	When should I use spiral grooved rollers?	Converting Magazine, Web Works Column, vol 18, no 8, pp 38, August 2000				magazine	Converting Magazine	Self					
2731		troubleshooting;problem solving	28-Aug-00	11	Roisum, David R.	Creative Problem Solving	TAPPI Polymers, Laminations and Coatings Conf. Proc., pp 277-287, Chicago, Aug 28-31, 2000	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5151&DID=523188	shows by example how creative approaches for problem solving found solutions quickly where recipe-based approaches did not. These examples include common converting problems such as baggy webs, wrinkles and wound roll problems.	conference	TAPPI	Self					
2738	o	team;management;organization	01-Sep-00	1	Roisum, David R.	What makes a good converting team?	Converting Magazine, Web Works Column, vol 18, no 9, pp 30, September 2000				magazine	Converting Magazine	Self					
2767	o	lighting;safety;ergonomics;inspection	01-Oct-00	1	Roisum, David R.	Why is plant lighting so important?	Converting Magazine, Web Works Column, vol 18, no 10, pp 22, October 2000				magazine	Converting Magazine	Self					
2759	o	critical_think;troubleshooting	16-Oct-00		Roisum, David R.	Critical Thinking in Converting	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2758	o	spread;wrinkle	16-Oct-00		Roisum, David R.	Spreading and Wrinkling	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL	Self					
2772	o	neatness;ergonomics;waste;delay	01-Nov-00	1	Roisum, David R.	Why is neatness so important?	Converting Magazine, Web Works Column, vol 18, no 11, pp 22, November 2000	4	http://www.convertingmagazine.com/article/308025-Q_Why_is_neatness_so_important_.php	While there is no universal indicator of process health, I have observed the tendency for plants that are neat and tidy to also be less troubled by problems such as waste, delay and safety	magazine	Converting Magazine	Self					
2774	o	temperature;humidity;season;defect	01-Dec-00	1	Roisum, David R.	Why are my defects worse in summer or winter?	Converting Magazine, Web Works Column, vol 18, no 12, pp 30, December 2000	4	http://www.convertingmagazine.com/article/309978-Q_Why_are_my_defects_worse_in_summer_or_winter_.php	Merely opening a door can spill hot or cold air into the machine room. Temperature can have noticeable affects on our processes, such as ovens and chill rollers, as well as thermally distort our machinery	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2779	o	spread;wrinkle;baggy	01-Jan-01	1	Roisum, David R.	How can I change the amount of spreading?	Converting Magazine, Web Works Column, vol 19, no 1, pp 20, January 2001	4	http://www.convertingmagazine.com/article/308355-Q_How_can_I_change_the_amount_of_spreading_.php	Sometimes the amount of spreading power should be varied, such as grade changes that include large changes in modulus. While aggressive spreading can be used on flexible materials, this same power trained on stiff materials can result in wrinkling	magazine	Converting Magazine	Self					
2784	o	cantilever;roller;design	01-Feb-01	1	Roisum, David R.	What are the pros and cons of cantilevered machinery?	Converting Magazine, Web Works Column, vol 19, no 2, pp 28, February 2001				magazine	Converting Magazine	Self					
2791	o	r&d;pilot;lab;machine	01-Mar-01	1	Roisum, David R.	Must we have a pilot line?	Converting Magazine, Web Works Column, vol 19, no 3, pp 40, March 2001	3	http://www.convertingmagazine.com/article/308139-Q_Must_we_have_a_pilot_line_.php	Having been around pilot machinery for a long time, I can say that from experience that it represents a two-edged sword	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2793	o	winding;defect; diagnose	01-Apr-01	1	Roisum, David R.	How do I know if winding caused my defect?	Converting Magazine, Web Works Column, vol 19, no 4, pp 52, April 2001	4	http://www.converting magazine.com/article/308345-Q_How_do_I_know_if_winding_caused_my_defect_.php	you may first see the defect on the winder simply because it is much more convenient to see there. To be certain the defect was not made elsewhere, it is wise to sample upstream of the winder.	magazine	Converting Magazine	Self					
2803	o	data;acquisition;sensor;process;knowledge; control	01-May-01	5	Roisum, David R.	What do we do with all this data?	Converting Magazine, vol 19, no 5, pp 62-66, May 2001	4	http://www.converting magazine.com/article/308636-What_do_we_do_with_all_this_data_.php	Does more process data automatically mean more process knowledge? Not necessarily	magazine	Converting Magazine	Self					
2802	o	business;cost; economics	01-May-01	1	Roisum, David R.	What is the most serious oversight in the web business?	Converting Magazine, Web Works Column, vol 19, no 5, pp 38, May 2001	4	http://www.converting magazine.com/article/309744-What_is_the_most_serious_oversight_in_the_web_business_.php	The most serious business oversight is not knowing as much as possible about the economics of a plant. This would include the types and costs of waste, such as off-spec material, seconds, reworks, trim, grade change and, most importantly, customer returns	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2848	o	business;customer;complaint;qa	01-Jun-01	1	Roisum, David R.	What is the most serious oversight in working with customers?	Converting Magazine, Web Works Column, vol 19, no 6, pp 34, June 2001	4	http://www.convertingmagazine.com/article/309828-What_is_the_most_serious_oversight_in_working_with_customers_.php	The most serious customer oversight made by converters is not understanding that customer. Only a few groups within a manufacturing organization are specifically tasked with meeting with, and understanding, the customer	magazine	Converting Magazine	Self					
2835	o	CD;tension;profile;bagginess	11-Jun-01	10	Roisum, David R.	Web Bagginess, Making, Measurement and Mitigation Thereof	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC	Self					
2851	o	curl;measurement;laminate;tension;temperature;moisture	01-Jul-01	1	Roisum, David R.	Is there more than one type of curl?	Converting Magazine, Web Works Column, vol 19, no 7, pp 20, July 2001	4	http://www.convertingmagazine.com/article/310290-Is_there_more_than_one_type_of_curl_.php	A sheet which is not dead flat as a sheet of glass is wrinkled, baggy and/or curled. The web can curl in two directions (up or down) and in three different orientations (MD, CD and diagonal).	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2855	o	curl;decurl	01-Aug-01	1	Roisum, David R.	How can I decurl a web?	Converting Magazine, Web Works Column, vol 19, no 8, pp 30, August 2001	4	http://www.convertingmagazine.com/article/308959-How_can_I_decurl_a_web_.php	While decurling can't prevent the curl discussed last month, it can reduce any direction, type or source of existing curl. Decurling yields or resets the material	magazine	Converting Magazine	Self					
2868		caliper;gage;thickness;lab;scan;measurement	26-Aug-01		Roisum, David R.	Secrets of a Level Process and Product	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Diego, Aug 26-30, 2001	5	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5114&DID=524871	desire a level profile, as well as a few cases where variation may be tolerated or even desirable. It also describes the types of profile variations and their associated risks. The thrust of this paper is, however, a compilation of the means of detecting	conference	TAPPI	Self	SecretsLevel	MeasurementScan	doc	05-Feb-10	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5668		baggy_web;camber;measure;tension	26-Aug-01	12	Roisum, David R.	Baggy Webs: Making, Measurement and Mitigation Thereof	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Diego, Aug 26-30, 2001	5	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5114&DID=524879	defining bagginess in three entirely equivalent ways based on variations of flatness, stress and strain. It then develops a taxonomy of bagginess by classifying the general case into major groups	conference	TAPPI	Self	BaggyWebTappiRoisum	SpreadWrinkleScan	doc and pdf	26-Nov-09	
2880	o	traction;design	01-Sep-01	1	Roisum, David R.	When is traction desirable?	Converting Magazine, Web Works Column, vol 19, no 9, pp 30, September 2001	3	http://www.convertingmagazine.com/article/309434-When_is_traction_desirable_.php	The three modes of web-to-roller interaction are tracking, sliding and floating. There are advantages and disadvantages with each mode.	magazine	Converting Magazine	Self					
2881	o	waste;efficiency	01-Sep-01	4	Roisum, David R.	To control costs: Work Smarter	Converting Magazine, Web Works Column, vol 19, no 9, pp 44-47, September 2001	3	http://www.convertingmagazine.com/article/308166-To_control_costs_Work_smarter.php	The categories in business are different—such as raw materials, direct and indirect labor, utilities, and so on—but the principle is the same	magazine	Converting Magazine	Self					
2905	o	roller;traction;sliding;alignment;wrinkling	01-Oct-01	1	Roisum, David R.	When is sliding desirable	Converting Magazine, Web Works Column, vol 19, no 10, pp 34, October 2001				magazine	Converting Magazine	Self					
2902	o	creative;problem_solving;troubleshooting	22-Oct-01		Roisum, David R.	Creative Problem Solving	AIMCAL Fall Tech Conf, Oct 22-24, 2001					AIMCAL	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2896	o	caliper;gage;profile;troubleshoot	22-Oct-01		Roisum, David R.	Secrets of a Level Process and Product	AIMCAL Fall Tech Conf, Oct 22-24, 2001					AIMCAL	Self					
2895	o	baggy_web;tension;troubleshoot	22-Oct-01		Roisum, David R.	Baggy Webs: Making, Measurement and Mitigation Thereof	AIMCAL Fall Tech Conf, Oct 22-24, 2001					AIMCAL	Self					
2907	o	laminate;curl;tunnel;adhesive;tension	01-Nov-01	1	Roisum, David R.	What causes laminate tunneling?	Converting Magazine, Web Works Column, vol 19, no 11, pp 28, November 2001	4	http://www.converting magazine.com/article/309862-What_causes_laminate_tunneling_.php	A laminate can delaminate if the adhesive or adhesion between the plies lets loose. This may result in a defect variously labeled as tunneling, gaping, worming, and so on	magazine	Converting Magazine	Self					
2927	o	wind;tin-can;ridge	01-Dec-01	1	Roisum, David R.	What causes wound-roll tin canning?	Converting Magazine, Web Works Column, vol 19, no 12, pp 32, December 2001	4	http://www.converting magazine.com/article/311418-What_causes_wound_roll_tin_canning_.php	Tin canning is a very common problem on wound rolls of thin films, but is rarely if ever seen on other materials. This defect is defined by narrow annular ridges (not on a diagonal or helix) that are somewhat evenly spaced	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2911	o	level;profile;caliper;measurement;wind;hardness	02-Dec-01	10	Roisum, David R.	Secrets of a Level Process and Product	TAPPI Engineering and Finishing and Converting Conf. Proc., San Antonio, December 2-6, 2001	5	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5098&DID=524909	desire a level profile, as well as a few cases where variation may be tolerated or even desirable. It also describes the types of profile variations and their associated risks. The thrust of this paper is, however, a compilation of the means of detecting	conference	TAPPI	Self	SecretsLevel	MeasurementScan	doc	05-Feb-10	
2915	o	challenges;profile;baggy	02-Dec-01	10	Roisum, David R.	Challenges Upstream and Downstream of the Winder	TAPPI Engineering and Finishing and Converting Conf. Proc., San Antonio, December 2-6, 2001				conference	TAPPI	Self					
2914	o	spread;meachanics	02-Dec-01	10	Roisum, David R.	The Mechanics of Web Spreading	TAPPI Engineering and Finishing and Converting Conf. Proc., San Antonio, December 2-6, 2001			bowed rollers, dual bowed rollers, concave rollers, expander rollers, D-bars and more. Also covered are spreader design considerations and troubleshooting techniques	conference	TAPPI	Self	Mechanics SpreadRoisum	SpreadWrinkleScan	doc and pdf	26-Nov-09	
2913	o	creative;problem_solving;wind	02-Dec-01	10	Roisum, David R.	Creative Problem Solving	TAPPI Engineering and Finishing and Converting Conf. Proc., San Antonio, December 2-6, 2001				conference	TAPPI	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2912	o	baggy;tension;profile;measurment;quality	02-Dec-01	10	Roisum, David R.	Baggy Webs; Making, Measurement and Mitigation thereof	TAPPI Engineering and Finishing and Converting Conf. Proc., San Antonio, December 2-6, 2001	5	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5098&DID=524901	defining bagginess in three entirely equivalent ways based on variations of flatness, stress and strain. It then develops a taxonomy of bagginess by classifying the general case into major groups	conference	TAPPI	Self	BaggyWebTappiRoisum	SpreadWrinkleScan	doc and pdf	26-Nov-09	
2931	o	core;size;deflection;failure;design	01-Jan-02	1	Roisum, David R.	What is the optimum core size	Converting Magazine, Web Works Column, vol 20, no 1, pp 22, January 2002	3	http://www.convertingmagazine.com/article/309152-What_is_the_optimum_core_size_.php	Geometries such as length, diameter and core wall thickness must be specified when ordering cores. Length is the easiest	magazine	Converting Magazine	Self					
5448		book;critica;_thinking;problem_solving;troubleshooting;diagnose;kt;gantt;project	01-Jan-02	232	Roisum, David R.	Critcial Thinking in Converting	TAPPI PRESS, Atlanta, 2002	10	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=9042&DID=525208	illustrates many different problem-solving techniques by example. The plant-proven tools introduced in this unique book will help you quickly find solutions to your toughest problems	Book	TAPPI	Self	CriticalThinkingRoisum	BooksRoisum	doc and pdf	23-Oct-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2933	o	roll;diameter;optimum;waste	01-Feb-02	1	Roisum, David R.	What is the Optimum Roll Diameter?	Converting Magazine, Web Works Column, vol 20, no 2, pp 26, February 2002	4	http://www.convertingmagazine.com/article/311305-What_is_the_optimum_wound_roll_diameter_.php	Customers and suppliers both want ever larger rolls. As the diameter increases, so does the run time between roll changes. Fewer roll changes means that the portion of waste at the top and bottom of the roll may be reduced	magazine	Converting Magazine	Self					
2935	o	bagginess, curl, wrinkle;diagnose	01-Mar-02	1	Roisum, David R.	Why isn't my web flat?	Converting Magazine, Web Works Column, vol 20, no 3, pp 18, March 2002	4	http://www.convertingmagazine.com/article/311414-Why_isn_t_my_web_flat_.php	A web may not be flat for two reasons. First, it may have internal stresses built-in by manufacturing. Second, it may have external stresses imposed by web handling. It is often easy to tell the difference	magazine	Converting Magazine	Self					
2938	o	wrinkle;spreading;flattening	01-Apr-02	1	Roisum, David R.	How can I prevent wrinkling	Converting Magazine, Web Works Column, vol 20, no 4, pp 28, April 2002	3	http://www.convertingmagazine.com/article/310350-How_can_I_prevent_wrinkling_.php	The first step in attacking most wrinkles is to change tensions at the section where they originate. Wrinkling severity is almost always affected by tension	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2939		baggy;web;tension;profile	01-Apr-02	4	Roisum, David R.	Baggy Webs: Making, Measurment and Mitigation thereof	Paper, Film & Foil Converter, vol 76, no 4, pp 78-81, TAPPI PLACE summary, April 2002				magazine	Paper Film Foil Converter	Self					
2944	o	caliper;slitting;roll;	01-May-02	1	Roisum, David R.	Why does my wound roll have flared ends	Converting Magazine, Web Works Column, vol 20, no 5, pp 18, May 2002	4	http://www.convertingmagazine.com/article/310372-Why_does_my_wound_roll_have_flared_ends_.php	Wound rolls can have flared or belled ends for a variety of reasons. This may be more than cosmetic—the diametral bulge can stretch the web into bagginess there. Oscillation can sometimes be used to	magazine	Converting Magazine	Self					
2947	o	caliper;profile;winding	01-Jun-02	1	Roisum, David R.	How do I know if my process is level?	Converting Magazine, Web Works Column, vol 20, no 6, pp 26, June 2002	4	http://www.convertingmagazine.com/article/309378-How_do_I_know_if_my_process_is_level_.php	Level webs may run faster and with less waste. Level profiles are so vital that they are often rejectable specifications set by either the supplier or the customer or both. Almost everyone measures profile	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2948	o	automation;drive;instrumentation;economics	01-Jun-02	4	Roisum, David R.	Process automation: Kudos and cautions	Converting Magazine, Web Works Column, vol 20, no 6, pp 56-61, June 2002	3	http://www.converting magazine.com/article/311176-Process_automation_Kudos_and_cautions.php	I've seen controls perform miracles that were undreamed of just a couple of years ago. I've also seen controls misbehave so badly that they kept brand-new machines down for months until they were bypassed or replaced.	magazine	Converting Magazine	Self					
2949	o	wind;tension;optimum;defect	01-Jul-02	1	Roisum, David R.	What is the best winding tension?	Converting Magazine, Web Works Column, vol 20, no 7, pp 18, July 2002	3	http://www.converting magazine.com/article/310609-What_is_the_best_winding_tension_.php	The earliest strategy for winding tensions, nearly a century old, is sometimes referred to as "baby bear tightness." We want to wind "not too hard, not too soft, but just right	magazine	Converting Magazine	Self					
2953	o	wind;tension;curve	01-Aug-02	1	Roisum, David R.	What is the best winding curve or taper?	Converting Magazine, Web Works Column, vol 20, no 8, pp 22, Aug 2002	3	http://www.converting magazine.com/article/310913-What_is_the_best_winding_curve_or_taper_.php	ability to taper is a two-edged sword. It can reduce the incidence of some defect types. It can also frustrate people and tie up resources as they try to find the "best curve."	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2952		caliper;gage;thickness;lab;scan;measurement	01-Aug-02	2	Roisum, David R.	Secrets of a Level Process and Product	Solutions!, pp 45-46, August 2002.				magazine	TAPPI	Self					
5510		measure;caliper;gage;thickness;profile	01-Aug-02	2	Roisum, David R.	Secrets of a level product and process	Solutions, pp 45-4, Aug 2002	4			magazine	TAPPI	Self	SecretLevelProductSolutions	MeasurementScan	doc and pdf	26-Nov-09	
5911	o	level;profile;caliper;measurement;wind;hardness	01-Aug-02	10	Roisum, David R.	Secrets of a Level Process and Product	TAPPI Solutions!, August 2002, Vol. 85(8)	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4936&DID=525475	Profile could therefore mean variation of any measurable property across web width. Sometimes profiles have a connection—gauge variations stack up during winding to create wound roll ridges that stretch a web into baggy lanes	magazine	TAPPI	Self	SecretsLevel	MeasurementScan	doc	05-Feb-10	
2965	o	bowed_roller;spreader;baggy_web	01-Sep-02	1	Roisum, David R.	Can a bowed roller cause bagginess?	Converting Magazine, Web Works Column, vol 20, no 9, pp 20, September 2002	3	http://www.convertingmagazine.com/article/308539-Can_a_bowed_roller_cause_bagginess_.php	My experience and understanding is that spreaders neither cause nor cure bagginess. Certainly there are exceptions to every rule, including this one	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2964		wind;telescope;interlayer_slippage	09-Sep-02		Roisum, David R.	Telescoping of Adhesive Coated Wound Rolls	TAPPI PLACE Conf. Proc., Boston, Sept 9-12, 2002	5	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5090&DID=510952	adhesive shear. As such, we will hereafter view certain adhesives as a 'grease' rather than as a 'glue.' PSA's, or Pressure Sensitive Adhesives, are certainly prone to this behavior	conference	TAPPI	Self	Telescope Adhesive	WindGeneralScan	doc and pdf	15-Feb-10	
2985	o	wind;telescope;diagnosis	21-Oct-02		Roisum, David R.	Telescopng of Adhesive Coated Wound Rolls	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL	Self					
2994	o	bowed_roller;spreader;baggy_web	01-Nov-02	1	Roisum, David R.	Can a bowed roller treat bagginess?	Converting Magazine, Web Works Column, vol 20, no 11, pp 22, November 2002	5	http://www.convertingmagazine.com/article/308462-Web_Works.php	Since we commonly put spreaders in front of nips to flatten the web, perhaps the spreader might help with bagginess. To understand how it might, we must distinguish between real bagginess and apparent bagginess.	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2997	o	defect;map;qa;troubleshoot	01-Dec-02	1	Roisum, David R.	How can I map defects?	Converting Magazine, Web Works Column, vol 20, no 11, pp 18, December 2002	4	http://www.convertingmagazine.com/article/308819-How_can_I_map_defects_.php	Defect mapping is a most powerful troubleshooting technique. One, unfortunately, of which few take full advantage. Instead, if you ask "Where do the defects show up?", the response will invariably be a verbal	magazine	Converting Magazine	Self					
3003	o	speed;productivity;machine_design	01-Jan-03	1	Roisum, David R.	How can I speed up my machine?	Converting Magazine, Web Works Column, vol 21, no 1, pp 64, January 2003	3	http://www.convertingmagazine.com/article/308702-How_can_I_speed_up_my_machine_.php	Speeding up a machine is one way to reduce the cost to manufacture a product. It allows the same number of operators to produce more, thus decreasing the unit labor costs	magazine	Converting Magazine	Self					
5910	o	thin;bw;caliper;;air_entrainment;tension_control;wind;wrinkle	01-Jan-03		Roisum, David R.	Thinking Thin?	TAPPI PLACE Conference & GLOBAL HOT MELT Symposium	5	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5065&DID=510399	The challenges described in this paper include: wrinkling, air entrainment, tension control, roller design, problems associated with profile variations and others	conference	TAPPI	self	ThinkingThin	MiscScan	doc	15-Feb-10	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3007	o	speed;productivity;machine_design	01-Feb-03	1	Roisum, David R.	How do I know if my tension control is working well?	Converting Magazine, Web Works Column, vol 21, no 2, pp 80, February 2003	4	http://www.convertingmagazine.com/article/310406-How_do_I_know_if_my_tension_control_is_working_well_.php	The most relevant measure of tension-control health is if very little waste or delay is attributed to tension variations with respect to time.	magazine	Converting Magazine	Self					
3011	o	width;productivity;roller	01-Mar-03	1	Roisum, David R.	What are the challenges of width	Converting Magazine, Web Works Column, vol 21, no 3, pp 118, March 2003	4	http://www.convertingmagazine.com/article/311040-What_are_the_challenges_of_width_.php	The problem is with the rollers. As the widths increase, so do the roller diameters needed to avoid excessive deflection.	magazine	Converting Magazine	Self					
3016	o	guide	01-Apr-03	1	Roisum, David R.	What is the best kind of web guide	Converting Magazine, Web Works Column, vol 21, no 4, pp 108, April 2003	3	http://www.convertingmagazine.com/article/310575-What_is_the_best_kind_of_web_guide_.php	Active guides are composed of three elements: an edge sensor, a controller and an actuator.	magazine	Converting Magazine	Self					
3030	o	caliper;wind;defect	13-Apr-03	5	Roisum, David R.	Secrets for a Level Process and Product	CEMA Coating and Laminating Seminar, Chicago, April 15, 2003				shortcourse	CEMA	Self					
3019	o	caliper;wrinkle;web_handle;tension;roller;wind	15-Apr-03	4	Roisum, David R.	Thinking Thin	CMM Int'l, T4 Coating Session, Chicago, April 15, 2003						Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3059	o	nip;load;control	01-May-03	1	Roisum, David R.	What is the best nip control?	Converting Magazine, Web Works Column, vol 21, no 5, pp 64, May 2003	4	http://www.converting magazine.com/article/308901-What_is_the_best_nip_control_.php	Nips are so important to control closely that variations of nip pressure are almost synonymous with variations of product. Yet, unfortunately, most nip controls are done quite poorly.	magazine	Converting Magazine	Self					
3068	o	thin;web;caliper;design	01-Jun-03	8	Roisum, David R.	Thinking Thin	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC	Self					
3114	o	caliper;quality;winding;defect	01-Jun-03	1	Roisum, David R.	How do caliper variations affect winding	Converting Magazine, Web Works Column, vol 21, no 6, pp 80, June 2003	4	http://www.converting magazine.com/article/308615-How_do_caliper_variations_affect_winding_.php	In fact, the winder is often the most fussy customer for gage uniformity. If you can get the caliper-varying web through the winder without defect, the purchaser of your web may have no further cause for complaint in this regard	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3118	o	caliper;quality;winding;defect	01-Jul-03	1	Roisum, David R.	How does differential or slip-core winding work?	Converting Magazine, Web Works Column, vol 21, no 7, pp 60, July 2003	3	http://www.convertingmagazine.com/article/307990-How_does_differential_or_slip_core_winding_work_.php	The short answer: Not very well. But before we evaluate the results, let's talk about mechanics	magazine	Converting Magazine	Self					
3129	o	splice	01-Aug-03	1	Roisum, David R.	What are the best splicing techniques?	Converting Magazine, Web Works Column, vol 21, no 8, pp 60, Aug 2003	3	http://www.convertingmagazine.com/article/308672-What_are_the_best_splicing_techniques_.php	Many factors determine the best splicing technique for given situation. The first is whether the splice is temporary or permanent	magazine	Converting Magazine	Self					
3131	o	wrinkle;spreader	01-Sep-03	1	Roisum, David R.	How do I prevent wrinkles from forming?	Converting Magazine, Web Works Column, vol 21, no 9, pp 72, Sept 2003	3	http://www.convertingmagazine.com/article/310256-Focus_on_Web_Handling.php	How do I prevent wrinkles from forming? So much has been written about wrinkles (I plead guilty), that one could become mired in details before seeing the overall philosophy	magazine	Converting Magazine	Self					
3155	o	gage;bw;thin;wrinkle;roller	26-Oct-03		Roisum, David R.	Thinking Thin?	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003					AIMCAL	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3159	o	wind;defect;troubleshoot	01-Nov-03	1	Roisum, David R.	How can I troubleshoot and treat winding defects?	Converting Magazine, Web Works Column, vol 21, no 11, pp 68, Nov 2003	4	http://www.convertingmagazine.com/article/309110-How_can_I_troubleshoot_and_treat_winding_defects_.php	The most useful classification of wound-roll defects is by tension. All defects fall into one of the following categories: tight roll, loose roll, taper and other	magazine	Converting Magazine	Self					
3165	o	wind;defect;troubleshoot	01-Dec-03	1	Roisum, David R.	Can I hide defects by winding loose?	Converting Magazine, Web Works Column, vol 21, no 12, pp 68, Dec 2003	4	http://www.convertingmagazine.com/article/308686-Can_I_hide_defects_by_winding_loose_.php	It is well known that winding looser (soft) will reduce the frequency and severity of some types of wound-roll defects. Examples would be ridges, webs stretched into bagginess over ridges and corrugations	magazine	Converting Magazine	Self					
3172	o	drive;tension;trouble	01-Jan-04	1	Roisum, David R.	Are we having more drive difficulties?	Converting Magazine, Web Works Column, vol 22, no 1, pp 56, January 2004	4	http://www.convertingmagazine.com/article/308297-Are_we_having_more_drive_difficulties_.php	I have seen more drive problems in the last two YEARS than I have seen in my first two DECADES in the industry	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3173	o	drive;tension;trouble	01-Feb-04	1	Roisum, David R.	Why we are having more drive difficulties - an opinion	Converting Magazine, Web Works Column, vol 22, no 2, pp 64, February 2004	4	http://www.convertingmagazine.com/article/310342-Why_we_are_having_more_drive_difficulties_an_opinion.php	If it's not hardware and it's not software, then what is it? It's WETWARE. People configuring the drives do not always know what they are doing.	magazine	Converting Magazine	Self					
3177	o	edge_guide;reliability	01-Mar-04	1	Roisum, David R.	Why do guides work so well?	Converting Magazine, Web Works Column, vol 22, no 3, pp 64, March 2004	3	http://www.convertingmagazine.com/article/311257-Why_do_guides_work_so_well_.php	Of the thousands of calls I've answered, only one was for an edge guide. It turned out to be a simple application error with not so simple consequences, once you build a machine.	magazine	Converting Magazine	Self					
3181	o	tension;load_cell;troubleshoot	01-Apr-04	1	Roisum, David R.	What can we do to improve tension control:	Converting Magazine, Web Works Column, vol 22, no 4, pp 84, April 2004	4	http://www.convertingmagazine.com/article/309999-What_can_we_do_to_improve_tension_control_.php	No matter if the control mode is dancer or draw, we need a load-cell tension readout just the same. Exemptions would be by special permit only	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3186	o	tension;wind;adjust;optimum	01-May-04	1	Roisum, David R.	How can I adjust tension to improve winding	Converting Magazine, Web Works Column, vol 22, no 5, pp 56, May 2004	3	http://www.convertingmagazine.com/article/310800-How_can_I_adjust_tension_to_improve_winding_.php	Whether we have a simple setpoint, linear taper or arbitrary curve, we must choose how to set the tension. The best setting is determined the same way here as with any other adjustment: economics	magazine	Converting Magazine	Self					
3185	o	nip;load;wind;adjust	01-Jun-04	1	Roisum, David R.	How would I adjust nip load on my winder	Converting Magazine, Web Works Column, vol 22, no 6, pp 72, June 2004	4	http://www.convertingmagazine.com/article/309120-How_would_I_adjust_nip_load_on_my_winder_.php	Winding nips, such as a layon roller, do many things depending on the circumstances. The primary functions are to meter air into the roll, improve stack, increase wound-roll tightness and to support the winding roll. Nips can also be destructive	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3189	o	wind;caliper;profile;defect	01-Jul-04	1	Roisum, David R.	How does gage profile affect winding?	Converting Magazine, Web Works Column, vol 22, no 7, pp 66, July 2004	4	http://www.convertingmagazine.com/article/308587-How_does_gage_profile_affect_winding_.php	Gage uniformity has a profound affect on wound-roll quality. In fact, gage variation can sometimes be so overwhelming that nothing can be done at the winder	magazine	Converting Magazine	Self					
3196	o	wind;caliper;profile;defect	01-Aug-04	1	Roisum, David R.	How can I measure gage profile?	Converting Magazine, Web Works Column, vol 22, no 8, pp 64, Aug 2004	4	http://www.convertingmagazine.com/article/308357-Web_Works.php	I am going to propose a different "best" measure of gage that is based on seeing and avoiding profile problems where they are most likely to appear: at the wound roll.	magazine	Converting Magazine	Self					
3218	o	roller;nip_impression;quality	29-Aug-04		Roisum, David R.	Nip Impressions	TAPPI PLACE Conf, Indianapolis, August 29, 2004	4	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5053&DID=525644	Uneven nips are also a common cause of web handling waste such as wrinkles, web breaks and other troubles. There are many causes for nonuniform nips. However, all are readily detectable by using nip impression paper	conference	TAPPI	Self	NipImpression	RollerScan	doc	05-Feb-10	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3221	o	wrinkle;roller;align;tension	29-Aug-04		Roisum, David R.	Importance of Web Handling in Avoiding Film Wrinkles	TAPPI PLACE Conf, Indianapolis, August 29, 2004				conference	TAPPI	Self					
5909	o	baggy_web;profile;troubleshoot	29-Aug-04		Roisum, David R.	Troubleshooting Baggy Webs	TAPPI Virtual Seminar Archives CD-ROM	5	http://www.tappi.org/s_tappi/doc.asp?CID=9024&DID=513336	1. What is a baggy web 2. Why are baggy webs so troublesome 3. How to measure bagginess 4. What can cause bagginess 5. How to limit the search to forming and deforming components 6. How to troubleshoot the source using the shape tool	seminar	TAPPI			RollerScan			
3232	o	dancer;tension;control	01-Sep-04	1	Roisum, David R.	Do dancers absorb tension variations?	Converting Magazine, Web Works Column, vol 22, no 9, pp72, September 2004	4	http://www.convertingmagazine.com/article/311236-Focus_on_Web_Handling.php	The short answer is 'Yes, but ...' Dancers are one method of closed-loop tension control, often preferred because it can compensate for variations and upsets that open-loop control methods—such as draw, speed, torque, and differential	magazine	Converting Magazine	Self					
3239	o	nip_impression;roller;quality	24-Oct-04		Roisum, David R.	Nip Impressions	AIMCAL Fall Tech Conf, Charleston, October 24-27, 2004					AIMCAL	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3236	o	caliper;wrinkle;web_handle;tension;roller;wind	24-Oct-04	4	Roisum, David R.	Thinking Thin	AIMCAL Fall Tech Conf, Charleston, October 24-27, 2004					AIMCAL	Self					
3262	o	roller;design;sizing	01-Nov-04	1	Roisum, David R.	How big should my rollers be?	Converting Magazine, Web Works Column, vol 22, no 11, pp58, November 2004	3	http://www.converting magazine.com/article/310573-Focus_on Web_Handling.php	Sizing rollers should be a science based on certain standards. Standards, in turn, are based not on good experience, but rather on avoiding known cases of bad experience	magazine	Converting Magazine	Self					
3267	o	roll;edge;quality	01-Dec-04	1	Roisum, David R.	How Important is Wound Roll Edge Quality	Converting Magazine, Web Works Column, vol 22, no 12, pp 58, December 2004	3	http://www.converting magazine.com/article/309167-Focus_on Web_Handling.php	If you care about your processes, if you care about your customer, then you must care about roll edge quality. The ideal is often referred to as "book end	magazine	Converting Magazine	Self					
3268	o	roll;edge;quality	01-Jan-05	1	Roisum, David R.	How can I read roll edge	Converting Magazine, Web Works Column, vol 23, no 1, pp 64, January 2005	4	http://www.converting magazine.com/article/308141-Focus_on Web_Handling.php	The first cut at diagnosing the reason for a specific roll-edge feature requires you to determine if the wrap is offset or has a width change. You can do this simply by comparing both sides of the roll	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3271	o	machine;design;quality	01-Feb-05	1	Roisum, David R.	How do you define machine quality?	Converting Magazine, Web Works Column, vol 23, no 2, pp 84, February 2005	4	http://www.convertingmagazine.com/article/310254-Focus_on_Web_Handling.php	The concept of machine quality is not as clear. Just as with webs, we could define it as "fitness for duty." However precise the definition; it is not so useful in practice because it lacks quantitative detail.	magazine	Converting Magazine	Self					
3273	o	machine;design;quality	01-Mar-05	1	Roisum, David R.	How do you define machine reliability?	Converting Magazine, Web Works Column, vol 23, no 3, pp 92, March 2005	4	http://www.convertingmagazine.com/article/311434-Focus_on_Web_Handling.php	Machine reliability is more difficult to define in practice. This is because in normal operation, you can usually only talk about system reliability	magazine	Converting Magazine	Self					
3277	o	footage;length;measure	01-Apr-05	1	Roisum, David R.	How can I measure footage?	Converting Magazine, Web Works Column, vol 23, no 4, pp 106, April 2005	3	http://www.convertingmagazine.com/article/308267-Focus_on_Web_Handling.php	The short answer is you can't measure something unless you first define it. This lack of definition causes more trouble between customers and suppliers than does the measurement itself	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3281	o	measurements	01-May-05	1	Roisum, David R.	How trustworthy is that measurement?	Converting Magazine, Web Works Column, vol 23, no 5, pp 68, May 2005	3	http://www.convertingmagazine.com/article/308535-Focus_on_Web_Handling.php	All have a consistent theme: watch out! Things are not as they seem, nor as reliable as you might expect	magazine	Converting Magazine	Self					
3324	o	slip_core;differential;wind	01-Jun-05	1	Roisum, David R.	Why should I use slip-core winding	Converting Magazine, Web Works Column, vol 23, no 6, pp 82, June 2005	2	http://www.convertingmagazine.com/article/309858-Focus_on_Web_Handling.php	Locked-core works fine if the gage profile is quite level or the material is compressible. The problem is that gage variations are a way of life for certain incompressible grades such as film.	magazine	Converting Magazine	Self					
3309	o	optimization	05-Jun-05	10	Roisum, David R.	Optimization by Integrating Engineering and Business Models	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC	Self					
3328	o	slip_core;differential;wind	01-Jul-05	1	Roisum, David R.	Why should I NOT use slip-core winding	Converting Magazine, Web Works Column, vol 23, no 7, pp 64, July 2005	4	http://www.convertingmagazine.com/article/309810-Focus_on_Web_Handling.php	differential winding, is one way to widen the window of gage variations that can be handled. While it is a way of life for many, however, it is not a cure-all for gage variation	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3331	o	gap_winding, wrinkle, air	01-Aug-05	1	Roisum, David R.	When should I use gap winding?	Converting Magazine, Web Works Column, vol 23, no 8, pp 78, Aug 2005	4	http://www.converting magazine.com/article/310049-Web_Works.php	Gap winding is used for thin, wrinkle-prone material. It also may be useful for adhesive-coated webs which wind lumpy if a nip is usedf	magazine	Converting Magazine	Self					
3338	o	cwa;centerwind_assist, wrinkle, air	01-Sep-05	1	Roisum, David R.	When should I use centerwind assist	Converting Magazine, Web Works Column, vol 23, no 9, pp 88, Sept 2005	4	http://www.converting magazine.com/article/311159-Web_Works.php	Center-wind torque assist is the third knob in the TNT's of winding: Tension, Nip, Torque and speed. It is the least common, most expensive and is easily the most misunderstood.	magazine	Converting Magazine	Self					
3339	o	winding	26-Sep-05		Roisum, David R.	Optimization by Integrating Engineering and Business Models	TAPPI PLACE Conf, Las Vegas, September 26, 2005	5	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5026&DID=526500	concludes that the only “best” that makes sense in an industrial environment is that which will minimize total costs. To find this best we must integrate engineering and business models	conference	TAPPI	Self	Optimization	MiscScan	doc	05-Feb-10	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3356	o	web_handling;information;literature	01-Nov-05	1	Roisum, David R.	What are good sources of web-handling knowledge	Converting Magazine, Web Works Column, vol 23, no 11, pp 60, Nov 2005	4	http://www.convertingmagazine.com/article/311581-Web_Works.php	Most of our web-handling knowledge comes from three principal sources: machine builders, machine owners and universities	magazine	Converting Magazine	Self					
3358	o	web_handling;information;literature	01-Dec-05	1	Roisum, David R.	What are good sources of web-handling data	Converting Magazine, Web Works Column, vol 23, no 12, pp 56, Dec 2005	4	http://www.convertingmagazine.com/article/308817-Web_Works.php	Unfortunately, many web-handling problems do not have practical or even usable sensors. For example, the most common problem in our industry, wrinkling, is not measurable by sensor	magazine	Converting Magazine	Self					
3361	o	roller;surface;design	01-Jan-06	1	Roisum, David R.	What is the best surface for my roller?	Converting Magazine, Web Works Column, vol 24, no 1, pp 56, Jan 2006	4	http://www.convertingmagazine.com/article/308614-Web_Works.php	There are two aspects to roller surfaces: chemistry, which we will cover here, and topology, which we will cover next month.	magazine	Converting Magazine	Self					
3366	o	roller;groove;air_entrain	01-Feb-06	1	Roisum, David R.	Why are rollers grooved?	Converting Magazine, Web Works Column, vol 24, no 2, pp 74, Feb 2006	4	http://www.convertingmagazine.com/article/310140-Web_Works.php	The primary purpose of most grooving is the same as the treads on your car: to maintain traction in spite of fluid lubrication.	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3375	o	baggy_web;waste;reject	01-Mar-06	1	Roisum, David R.	Must I Endure Baggy Webs?	Converting Magazine, Web Works Column, vol 24, no 3, pp 66, March 2006	4	http://www.convertingmagazine.com/article/309371-Web_Works.php	You should not have to put up with baggy stock from your supplier. Do not make their problem yours. Do not even be dissuaded if the supplier is your own company	magazine	Converting Magazine	Self					
3379	o	baggy_web;waste;reject	01-May-06	1	Roisum, David R.	Why can't I spread out a baggy web?	Converting Magazine, Web Works Column, vol 24, no 5, pp 78, May 2006	4	http://www.convertingmagazine.com/article/308464-Web_Works.php	Do spreaders help much to nurse a baggy web through? The experience of countless operators, using countless spreading devices on countless webs, suggests not	magazine	Converting Magazine	Self					
3391	o	tension;drive	07-May-06	1	Roisum, David R.	What is the best tension for my product?	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Self					
3385	o	roller;design;sizing	07-May-06	1	Roisum, David R.	What is the best roller size for my machine?	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Self					
3381	o	roller;grooving	01-Jun-06	1	Roisum, David R.	What is the best type of grooving for my rollers?	Converting Magazine, Web Works Column, vol 24, no 6, pp 70, June 2006	4	http://www.convertingmagazine.com/article/308834-What_is_the_best_type_of_grooving_for_my_rollers_.php	This is a great question. However, it can't be answered precisely for many reasons. First, there are many web types	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3413	o	caliper;guage; profile	01-Jul-06	1	Roisum, David R.	Is flat always the best web profile?	Converting Magazine, Web Works Column, vol 24, no 7, pp 72, July 2006	4	http://www.converting magazine.com/article/310678-Is_flat_always_the_best_web_profile_.php	Not necessarily, but this is not a license to open up your tolerance for gage variations. An absolutely dead-flat gage and weight profile is usually the best answer	magazine	Converting Magazine	Self					
3417	o	concave;tape; spreader	01-Aug-06	1	Roisum, David R.	What is the best way to tape rollers	Converting Magazine, Web Works Column, vol 24, no 8, pp 76, Aug 2006	4	http://www.converting magazine.com/article/309695-Web_Works.php	Before we answer that question, we should first ask, why should we tape rollers? There are three common reasons given.	magazine	Converting Magazine	Self					
3433	o	roller;skew;misalign;coat;calender	01-Sep-06	1	Roisum, David R.	Whywould I want to skew rolllers"	Converting Magazine, Web Works Column, vol 24, no 9, pp 86, Sept 2006	4	http://www.converting magazine.com/article/308037-Web_Works.php	Some rollers can be tipped, usually by a screw adjustment. For process rollers, such as calendering, coating and printing, one motivation is to attempt to “level” the process	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3429	o	roller;design;sizing	18-Sep-06		Roisum, David R.	What is the Best Roller Size for My Machine?	TAPPI PLACE Conf, Cincinnati, September 17-21, 2006	3	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=9355&DID=552257	If rollers are oversized, the capital costs increase. Also, the vital areas of drive and tension control might be made more challenging. If the rollers are undersized the consequences are even more serious: increased waste and delay	conference	TAPPI	Self					
3432	o	tension;sizing;optimization	18-Sep-06		Roisum, David R.	What is the Best Tension for my Product	TAPPI PLACE Conf, Cincinnati, September 17-21, 2006	4	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=9355&DID=552283	you must know what tension is best for your process and product. You must also know how much variability is tolerable. There are many places you might get answers to tension questions such as these	conference	TAPPI	Self					
3456	o	spread;slit;design	01-Oct-06	1	Roisum, David R.	Why should I spread near slitters?	Converting Magazine, Web Works Column, vol 24, no 10, pp 86, Oct 2006	4	http://www.convertingmagazine.com/article/309207-Why_should_I_spread_near_slitters_.php	The gold standard of slitting design is spread > slit > spread > wind. In this ideal, we use two different spreaders	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3466		baggy_web;troubleshooting	01-Oct-06	3	Roisum, David R.	Troubleshooting Baggy Webs	Pulp & Paper Canada, vol 107, no 10, October 2006				magazine	Pulp and Paper Canada	Self					
3451		tension;design;economics;quality	23-Oct-06	1	Roisum, David R.	Tension Setting Guidelines andsome important exceptions	AIMCAL Fall Tech Conf Proc, Reno, October 22-25, 2006					AIMCAL	Self					
3460	o	roller;air_entrain;flotation	01-Nov-06	1	Roisum, David R.	What is the best way to float a web	Converting Magazine, Web Works Column, vol 24, no 11, pp 74, Nov 2006	3	http://www.convertingmagazine.com/article/310020-What_is_the_best_way_to_float_a_web_.php	There are two kinds of air flotation: passive and active. Passive flotation is usually called air entrainment.	magazine	Converting Magazine	Self					
3462	o	bagginess;splice;tracking	01-Dec-06	1	Roisum, David R.	Why does my web shift at roll change	Converting Magazine, Web Works Column, vol 24, no 12, pp 64, December 2006	4	http://www.convertingmagazine.com/article/307913-Why_does_my_web_shift_at_roll_change_.php	It is important to understand that an outcome, such as a sideways shift of the web, can be a result of many distinctly different causes	magazine	Converting Magazine	Self					
3467	o	speed;productivity	01-Jan-07	1	Roisum, David R.	Is it hard to speed up a line?	Converting Magazine, Web Works Column, vol 25, no 1, pp 56, January 2007	4	http://www.convertingmagazine.com/article/308577-Is_it_hard_to_speed_up_a_line_.php	There are two speed “limits”—real and perceived. Most of the real limits are drive related. Maximum motor RPM or horsepower ratings are the most common. Most other limits exist only in the mind	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3470	o	wrinkle;diagnostic;treatment	01-Feb-07	1	Roisum, David R.	What can I do about wrinkling?	Converting Magazine, Web Works Column, vol 25, no 2, pp 64, February 2007	3	http://www.convertingmagazine.com/article/311283-What_can_I_do_about_wrinkling_.php	The first thing you need to know is where the wrinkles form, not why. In most cases rejectable wrinkles form on a roller, even if the cause is upstream	magazine	Converting Magazine	Self					
3475	o	sensor;eye;observation	01-Mar-07	1	Roisum, David R.	What is the most important web handling sensor?	Converting Magazine, Web Works Column, vol 25, no 3, pp 84, March 2007	3	http://www.convertingmagazine.com/article/311382-What_is_the_most_important_web_handling_sensor_.php	Without a doubt, the most important web sensor is your eye. How many sensors do we have to even detect wrinkling, which may be the most devastating defect in our industry? Only one, the eye	magazine	Converting Magazine	Self					
3485	o	management	01-Apr-07	1	Roisum, David R.	What is your favorite management program?	Converting Magazine, Web Works Column, vol 25, no 3, pp 84, April 2007	3	http://www.convertingmagazine.com/article/308923-What_is_your_favorite_management_program_.php	Programs come and go, like fads. Many a plant worker rolls his eyes when he hears about the next "improvement" coming from above	magazine	Converting Magazine	Self					
3486		alignment	01-May-07	2	Roisum, David R.	Alignment: New Machinery Installations	Converting Magazine, vol 25, no 5, pp 44-46, May 2007	3	http://www.convertingmagazine.com/article/307906-Alignment_New_machinery_installations.php	: What should I expect from the machinery manufacturer	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3482	o	troubleshooting	01-May-07	1	Roisum, David R.	What is your favorite troubleshooting method?	Converting Magazine, Web Works Column, vol 25, no 5, pp 96, May 2007	3	http://www.convertingmagazine.com/article/308043-What_is_your_favorite_troubleshooting_method_.php	I value troubleshooting skills even more than web literacy.	magazine	Converting Magazine	Self					
3487	o	slitter;trim_removal	01-Jun-07	1	Roisum, David R.	How can I take away trim?	Converting Magazine, Web Works Column, vol 25, no 6, pp 72, June 2007	3	http://www.convertingmagazine.com/article/311405-How_can_I_take_away_trim_.php	Nearly every web manufacturer and most web converters have to cut and remove trim at one time or another. Unfortunately, you can have as much trouble with this small piece of waste	magazine	Converting Magazine	Self					
3512	o	web_handling;myth	10-Jun-07	8	Roisum, David R.	What We Know (That Just Isn't So)	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3521	o	machine;rebuild;upgrade	01-Jul-07	3	Roisum, David R.	Upgrade your web line	Converting Magazine, vol 25, no 7, pp 30-32, July 2007	3	http://www.convertingmagazine.com/article/309359-Upgrade_your_web_line.php	Machines often need to be upgraded at least once in their lives. This may be done merely to maintain functionality, such as when components wear out and direct replacements become unavailable. More often, we will try to increase functionality	magazine	Converting Magazine	Self					
3520	o	trim	01-Jul-07	1	Roisum, David R.	What should I expect of pneumatic rim removal systems	Converting Magazine, Web Works Column, vol 25, no 7, pp 76, July 2007	4	http://www.convertingmagazine.com/article/308662-What_should_I_expect_of_pneumatic_trim_removal_systems_.php	Pneumatic trim-removal systems are something like industrial-sized vacuum cleaners. Even so, there are many things that can go wrong	magazine	Converting Magazine	Self					
3526	o	load_cell;tension;calibration	01-Aug-07	1	Roisum, David R.	How do I calibrate load cells?	Converting Magazine, Web Works Column, vol 25, no 8, pp 68, Aug 2007	4	http://www.convertingmagazine.com/article/310952-How_do_I_calibrate_load_cells_.php	Trustworthiness is established by regular calibration.	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3536	o	dancer;tension;calibration	01-Sep-07	1	Roisum, David R.	How do I calibrate dancer?	Converting Magazine, Web Works Column, vol 25, no9, pp 92, Sept 2007	5	http://www.convertingmagazine.com/article/310319-How_do_I_calibrate_dancers_.php	There are even more reasons to calibrate dancers than load cells. Just like load cells, dancers are a tension indicator, and the native units are not proper tension units	magazine	Converting Magazine	Self					
3528	o	web_handling	16-Sep-07	8	Roisum, David R.	What We Know,That Just Ain't So - Myth busting in web handling	TAPPI PLACE Conf, Proc., St Louis, Sept 16-19, 2007	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=11167&DID=557421	The origin of the myths is unimportant and often undeterminable. What is important is whether the old plant conventional wisdom has been replaced by the new science of web handling	conference	TAPPI	Self	WhatWeKnow	MiscScan	doc	05-Feb-10	
3538	o	wind;measure;gage	01-Oct-07	1	Roisum, David R.	What is the best instrument for measuring roll quality	Converting Magazine, Web Works Column, vol 25, no 10, pp 76, Oct 2007	4	http://www.convertingmagazine.com/article/308469-What_is_the_best_instrument_for_measuring_wound_roll_quality_.php	Your eyes. Seriously. If you look at the 100+ defects in the encyclopedic Roll and Web Defect Terminology, you will see a picture for every single defect	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3545	o	wind;design;gage	01-Nov-07	1	Roisum, David R.	What is the best taper to run on my winder?	Converting Magazine, Web Works Column, vol 25, no 11, November 2007	3	http://www.converting magazine.com/article/311248-What_is_the_best_taper_tension_that_I_should_run_on_my_winder.php	wish taper tension had never been invented. It was invented solely as a convenience to the electrical people decades ago when cams and proportional controls were about all there was available	magazine	Converting Magazine	Self					
5449		book;critica;_thinking;problem_solving;troubleshooting;diagnose;creative	01-Nov-07	156	Roisum, David R.	Creative Thinking in Converting	Self published by Packaging Greenhouse, a client, 2007	10			Book	Packaging Greenhouse	Self	CreativeThinkingRoisum	BooksRoisum	doc and pdf	23-Oct-09	
3544	o	wind;design;gage	01-Dec-07	1	Roisum, David R.	How can I wind material with bad gage variation?	Converting Magazine, Web Works Column, vol 25, no 12, December 2007	3	http://www.converting magazine.com/article/309221-How_can_I_wind_material_with_bad_gauge_profile_.php	You really only have a few options: Wind very short rolls (a few dozen wraps ought to be okay), send the ugly raw material back to the supplier, or wind soft and live with the remaining gauge-related defects.	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3543	o	wind;design	01-Jan-08	1	Roisum, David R.	Can you apply DFM to winding?	Converting Magazine, Web Works Column, vol 26, no 1, pp 68, January 2008	4	http://www.convertingmagazine.com/article/308217-Can_you_apply_DFM_to_winding_.php	Of course you can. However, you really have to think outside the box so that the winder is considered a vital step in manufacturing instead of an after-thought. DFM (or Design For Manufacturability	magazine	Converting Magazine	Self					
3549	o	roller;align;standard	01-Feb-08	1	Roisum, David R.	How closely do I need to align my machine?	Converting Magazine, Web Works Column, vol 26, no 2, pp 72, February 2008	3	http://www.convertingmagazine.com/article/310288-How_closely_do_I_need_to_align_my_machine_.php	A decade ago in this column I tried to answer this complicated question and did not do a very good job. I can now answer this question definitively: It depends	magazine	Converting Magazine	Self					
3550	o	roller;align;standard	01-Mar-08	1	Roisum, David R.	When do I need to align my machine?	Converting Magazine, Web Works Column, vol 26, no 3, pp 64, March 2008	4	http://www.convertingmagazine.com/article/311462-When_do_I_need_to_align_my_machine_.php	There are three or four events in a machine's life that would require alignment	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3552	o	troubleshooting quality	01-Apr-08	1	Roisum, David R.	What do you mean by process and product quality?	Converting Magazine, Web Works Column, vol 26, no 4, pp 142, April 2008	3	http://www.converting magazine.com/article/308693-What_do_you_mean_by_process_and_product_quality_.php	Defining product quality is also problematic. Certainly customer complaints would seem to indicate key qualities are lacking. However, is this the whole story	magazine	Converting Magazine	Self					
3581	o	spread;wind;caliper_variation	01-May-08	4	Roisum, David R.	Web Works Extra	Converting Magazine, Web Works Column, vol 26, no 5, pp 44-49, May 2008	4	http://www.converting magazine.com/article/310042-Slitter_Rewinder_Tech_Web_Works.php	The gold standard of slitting design is spread > slit > spread > wind.	magazine	Converting Magazine	Self					
3580	o	machine;quality;design;performance	01-May-08	1	Roisum, David R.	What do you mean by machine quality?	Converting Magazine, Web Works Column, vol 26, no 5, pp 66, May 2008	3	http://www.converting magazine.com/article/309637-What_do_you_mean_by_web_machine_quality_.php	The first is mechanical precision. The second is control precision	magazine	Converting Magazine	Self					
3564	o	baggy;camber;troubleshooting	06-May-08	1	Roisum, David R.	Troubleshooting Baggy Webs	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3582	o	tension;draw;speed;control	01-Jun-08	1	Roisum, David R.	What is draw control?	Converting Magazine, Web Works Column, vol 26, no 6, pp 74, June 2008	3	http://www.converting magazine.com/article/310136-What_is_draw_control_.php	Draw control should be called what it actually is: Speed control. The word draw is ambiguous. It could mean the intentional and permanent elongation of material	magazine	Converting Magazine	Self					
5879	o	tension;draw;speed;control	01-Jul-08	1	Roisum, David R.	What are the drawbacks to draw control	Converting Magazine, Web Works Column, vol 26, no 7, July 2008	4	http://www.converting magazine.com/article/310239-What_are_the_drawbacks_to_draw_control_.php	Speed or draw control is quite simple for electrical engineers. They merely need to make a motor turn at a target speed to an accuracy of a few parts per thousand	magazine	Converting Magazine	Self					
5880	o	wind;gap;layon_roll	01-Aug-08	1	Roisum, David R.	What is gap winding?	Converting Magazine, Web Works Column, vol 26, no 7, Aug 2008	3	http://www.converting magazine.com/article/310757-What_is_gap_winding_.php	Gap winding is many things to many people. A common arrangement is a centerwind with a lay-on roller where the lay-on roller has been lifted from the winding roll	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5881	o	wind;tnt;roll_structure;taper	01-Sep-08	1	Roisum, David R.	What is the best winding curve?	Converting Magazine, Web Works Column, vol 26, no 7, Sept 2008	4	http://www.convertingmagazine.com/article/309590-What_is_the_best_winding_curve_.php	The best winding curve is one that straddles two types of defects at two different ends of the wound roll	magazine	Converting Magazine	Self					
5882	o	accumulator;roller;alignment;wrinkle;tension	01-Oct-08	1	Roisum, David R.	What do I need to know about accumulators	Converting Magazine, Web Works Column, vol 26, no 7, Oct 2008	4	http://www.convertingmagazine.com/article/309726-What_do_I_need_to_know_about_web_accumulators_.php	Accumulators are used to temporarily store web material on medium-speed, continuous-processing lines.	magazine	Converting Magazine	Self					
3678	o	web_handling;history	01-Nov-08	1	Roisum, David R.	Web-Handling: Looking back and looking forward	Converting Magazine, Web Works Column, vol 26, no 11, pp 70, Nov 2008	3	http://www.convertingmagazine.com/article/308069-Web_Handling_Looking_back_and_looking_forward.php	A quarter-century has brought many positive changes to web-handling. The most obvious is computer control of our machinery. However, the most important may be simple name recognition	magazine	Converting Magazine	Self					
3682	o	laminator;tension;strain;curl	01-Dec-08	1	Roisum, David R.	What is the best tension for laminators	Converting Magazine, Web Works Column, vol 26, no 12, pp 58, Dec 2008	4	http://www.convertingmagazine.com/article/309491-What_tension_is_best_for_laminators_.php	Setting and controlling tension is more challenging on laminators than almost any other machine.	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3684	o	roll;length;measure;customer_complaint	01-Jan-09	1	Roisum, David R.	How can I measure web and roll length?	Converting Magazine, Web Works Column, vol 27, no 1, pp 52, Jan 2009	3	http://www.converting magazine.com/article/310964-Web_and_roll_length_How_do_you_measure_it_.php	Roll length is such a common measure that few even think about it until they get customer complaints for discrepancies	magazine	Converting Magazine	Self					
3686	o	wind;roll;diameter;measure	01-Feb-09	1	Roisum, David R.	How do you measure wound-roll diameter?	Converting Magazine, Web Works Column, vol 27, no 2, pp 54, Feb 2009	4	http://www.converting magazine.com/article/308304-Wound_roll_diameter_How_do_you_measure_it_.php	The gold standard of wound-roll measurement is, however, the two-tachometer method	magazine	Converting Magazine	Self					
3688	o	drive;tension;speed	01-Mar-09	1	Roisum, David R.	What is the master-speed reference?	Converting Magazine, Web Works Column, vol 27, no 3, pp 54, Mar 2009	4	http://www.converting magazine.com/article/310514-Master_speed_reference_What_is_it_.php	master drive is the timekeeper/pacer of all other drive motors and elements in the line.	magazine	Converting Magazine	Self					
6036	o	dictionary;web_handling;winding;rollers;converting	01-Apr-09	30	Roisum, David R.	Roisum Dictionary		5		a dictionary of terms from the winding, mechanics and other books and sources	report	Roisum	Self	RoisumDictionary	RoisumLibrary	doc	03-Apr-11	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3691	o	tension;drive;control	01-Apr-09	1	Roisum, David R.	What is a helper drive?	Converting Magazine, Web Works Column, vol 27, no 4, pp 134, April 2009	4	http://www.converting magazine.com/article/310356-Helper_drives_What_are_they_and_how_do_they_work_.php	One way to think of a helper drive is as a poor man's dancer or load-cell tension control. However, it's not always the case that we can't afford load cells; it's more often the case that we can't fit them in	magazine	Converting Magazine	Self					
6037	o	winding;paper;machine;measurements	03-Apr-09	30	Roisum, David R.	Paper Winding	Wiley - a chapter in a book series edited by Naceur Belgacem	5		a chapter written on paper winding	book	Wiley		Paper_WindingWileyChapter	BooksRoisum	doc	03-Apr-11	
3692	o	roller;traction	01-May-09	1	Roisum, David R.	How can I improve roller traction	Converting Magazine, Web Works Column, vol 27, no 5, pp 48, May 2009	3	http://www.converting magazine.com/article/308793-Roller_traction_How_can_I_improve_it_.php	So what are the options to enhance traction? The first options are foretold by the century-old band-brake equation	magazine	Converting Magazine	Self					
3697	o	roller;release	01-Jun-09	1	Roisum, David R.	How can I improve roller release	Converting Magazine, Web Works Column, vol 27, no 6, pp 48, June 2009	4	http://www.converting magazine.com/article/310001-Roller_release_How_can_I_improve_it_.php	Sticky or tacky materials, such as coatings and adhesives, can cause enormous operational and runnability headaches.	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3713	o	problems	07-Jun-09	15	Roisum, David R.	A Mechanistic Survey of Accumulating, Resonant and Self-Exciting Systems in Web Handling	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC	Self					
3742	o	wind;telescope	01-Jul-09	1	Roisum, David R.	What causes a wound roll to telescope? Part 1.	Converting Magazine, Web Works Column, vol 27, no 7, pp 40, July 2009	4	http://www.convertingmagazine.com/article/315096-Wound_roll_telescoping_What_causes_it_Part_1.php	Telescoping is not a single defect but a collection of largely unrelated defects that use the same name.	magazine	Converting Magazine	Self					
3745	o	wind;telescope	01-Aug-09	1	Roisum, David R.	What causes a wound roll to telescope? Part 2.	Converting Magazine, Web Works Column, vol 27, no 8, pp 44, Aug 2009	4	http://www.convertingmagazine.com/article/326920-Wound_roll_telescoping_What_causes_it_Part_2.php	Type II telescoping is common with products that have a viscous coating. (Though it can occur on fuzzy products due to dry slippage.). The classic example is PSAs f	magazine	Converting Magazine	Self					
3748	o	wind;core_crush	01-Sep-09	1	Roisum, David R.	How should I combat core rush?	Converting Magazine, Web Works Column, vol 27, no 9, pp 48, Sept 2009	4	http://www.convertingmagazine.com/article/339357-Web_Works_How_should_I_combat_core_crush_.php	Core crush is not a single defect but rather three distinctly different defects. True, they all have the same outcome, the core gives way, and increasing core strength l	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3755	o	accumulators	01-Oct-09	1	Roisum, David R.	Why are accumulators so troublesome	Converting Magazine, Web Works Column, vol 27, no 10, pp 40, Oct 2009	4	http://www.convertingmagazine.com/article/358303-Why_are_accumulators_so_troublesome_.php	Some of the accumulator's challenges are mechanical. Because you have many rollers	magazine	Converting Magazine	Self					
5713		web_handling;winding;seminar;school;converting;problem_solving	01-Oct-09	999	Roisum, David R.	Web101	TAPPI PRESS, AIMCAL, Others	10	http://www.tappi.org/s_tappi/docbookstore.asp?CID=9052&DID=560908	Dave on a Disk: Everything you need to know about web manufacturing and converting machinery	CourseNotes	Roisum, David	Self	Web101Roisum	WebSchools	ppt		
3758	o	winding;tnt;tension;nip;torque	01-Nov-09	1	Roisum, David R.	What are the TNT's of winding?	Converting Magazine, Web Works Column, vol 27, no 11, pp 40, Nov 2009	4	http://www.convertingmagazine.com/article/388671-What_are_the_TNTs_of_winding_.php	The TNTs of winding are the control settings on the winding machine that affect the tightness of the wound roll. The acronym stands for Tension, Nip, Torque and speed	magazine	Converting Magazine	Self					
5555		book;winding;web_handling;tension;roller;guide;wrinkle;web_break;align;wrinkle	01-Dec-09	285	Roisum, David R.	Web Handling Blog	AIMCAL	10			Book	AIMCAL	Self	WebHandlingBlog	RoisumBlogWebWords	doc	23-Oct-09	
3763	o	winding;tnt;tension;nip;torque	01-Dec-09	1	Roisum, David R.	How do the TNT's affect the wound roll?	Converting Magazine, Web Works Column, vol 27, no 12, pp 40, Dec 2009	4	http://www.convertingmagazine.com/article/438834-How_do_the_TNTs_affect_the_wound_roll_.php	The TNTs of winding all do the same thing: Make the wound roll tighter. However, the tightness of the wound roll can be measured in many different ways	magazine	Converting Magazine	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5883	o	winding;tnt;tension;nip;torque;troubleshooting	01-Jan-10	1	Roisum, David R.	How many process knobs does your machine have	Converting Magazine, Web Works Column, vol 28, no 1, pp 40, Jan 2010	5	http://www.convertingmagazine.com/article/444537-Web_Works_How_many_process_knobs_does_your_machine_have_.php	This number of adjustments gives an illusion of control that does not really exist. Many of these knobs do the same thing, and most do nothing at all with regard to a particular problem.	magazine	Converting Magazine	Self					
5451		book;machine;design;buy;engineer;sales	01-Jan-10	243	Roisum, David R.	Web Machine Buyer's Guide	desTECH, 2010	10			Book	desTECH	Self	MachBuyDraft	BooksRoisumDrafts	doc and pdf	31-Dec-09	
5937	o	wind;defect;roll_edge	01-Apr-10	1	Roisum, David R.	What causes poor roll edges	Converting Magazine, Web Works Column, vol 28, no 3, pp 110, Apr 2010	4		diagnostic challenge to poor roll edges is to use the analogy of tree rings	magazine	Converting Magazine	Self					
5959	o	literature;database;web_handling	18-May-10	1	Roisum, David R.	Dead Trees and Web Handling	Applied Web Handling Conf, AIMCAL AWEB, Rochester, May 17-20	5	http://www.aimcal.org/association/aweb10/abstracts.asp?RECORD_KEY=filename&filename=roisum3	There are thousands of web handling articles, columns, papers and books. Therein the user will find tens of thousands of pages of information. Yet, this abundance of recorded knowledge does not necessarily mean that one can find what one is looking for	conference	AIMCAL	self	AWEB/AWEB10	AWEB2010	pdf	04-Jun-10	

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5946	o	core;manufacture;test;failure;wind	18-May-10	1	Roisum, David R.	Core: Manufacturing, Specifications, Testing and Failure	Applied Web Handling Conf, AIMCAL AWEB, Rochester, May 17-20	3	http://www.aimcal.org/association/aweb10/abstracts.asp?RECORD_KEY=filename&filename=roisum1	This paper briefly describes how (fiber) cores are manufactured, what specifications you should consider and how they can be tested and how they might fail in service	conference	AIMCAL	self	AWEB/AWEB10	AWEB2010	pdf	04-Jun-10	
5947	o	core;wind;guide;defect	18-May-10	1	Roisum, David R.	Cores and Beyond: The Foundation of Winding David Roisum	Applied Web Handling Conf, AIMCAL AWEB, Rochester, May 17-20	4	http://www.aimcal.org/association/aweb10/abstracts.asp?RECORD_KEY=filename&filename=roisum2	failures of the core itself, such as any one of the many types of crushed cores, but also of the web layers just above the core	conference	AIMCAL	self	AWEB/AWEB10	AWEB2010	pdf	04-Jun-10	
9784		wind;web_handlng;problem_solving;slitting;calendering;rollers;design;application	01-Jan-11	378	Roisum, David R.	WebHandlingBlog Roisum	AIMCAL Web Handling Blog	10			book blog	self	self	WebHandlingBlogRoisum	BookScan	doc	01-May-11	
9783		wind;model;measure;machine;design	01-Jan-11	35	Roisum, David R.	Paper WindingWileyChapter	not published	5			chapter	self	self	Paper WindingWileyChapter	WindGeneralScan	doc	01-May-11	
5925	o	time;temperature;pressure;manufacturing	01-Feb-11	1	Roisum, David R.	What are the TTP's of Processing	Converting Magazine, Web Works Column, vol 28, no 1, pp 48, Feb 2010	4	http://www.convertingmagazine.com/article/448248-What_are_the_TTPs_of_processing_.php	The acronym TTP stands for time, temperature and pressure. Many processes, both chemical and physical, are nicely captured by those usually interchangeable parameters.	magazine	Converting Magazine	Self					

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6026	o	wound;roll;length;measure;strain;tension	01-Feb-11	1	Roisum, David R.	How can I measure roll length	Converting Quarterly, AIMCAL, pp 82, Feb 2011	3		several factors make roll length measurement variable	magazine	AIMCAL	Self					
5926	o	wind;edge_quality	01-Mar-11	1	Roisum, David R.	What causes poor winder starts	Converting Magazine, Web Works Column, vol 28, no 3, pp 40, Mar 2010	4	http://www.convertingmagazine.com/article/453094-What_causes_poor_winder_starts_.php	A wound roll may be wrinkled or have rough roll edges near the core	magazine	Converting Magazine	Self					
6074		load_cell;wrap;angle;design;sensor	01-May-11	4	Roisum, David R.	What is the best wrap angle for a load-cell roller	Converting Quarterly, AIMCAL, pp 88, May 2011	2	http://www.convertingquarterly.com/magazine/current-issue.aspx	there is no such thing as 'best', only 'good enough', sizing calculation	magazine	AIMCAL	self					
6056	o	web_handling;literature;review	13-Jun-11		Roisum, David R.	A Century of Web Handling Literature	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15				conference	WHRC	self					
6135		roller;bearing;oven;wrap;angle;wrinkle;traction;design	01-Sep-11	1	Roisum, David R.	How does and arch keep webs flat?	Converting Quarterly, qtr 3, 2011	4			magazine	AIMCAL	self					
9775		wind;web;defect;book	01-Nov-11	1	Roisum, David R.	What are the best ways to classify and name converting-process defects	Converting Quarterly, qtr 4, 2011	4			magazine	AIMCAL	self					
9788		roller;alignment;measure;standard	01-Jan-12	16	Roisum, David R.	Roller Alignment - Standards	AIMCAL Web Handling Conf, Europe, June, 2012	5			conference	AIMCAL	self	RollerAlign Standard	RollerScan	doc		
9787		roller;alignment;measure;standard	01-Jan-12	16	Roisum, David R.	Roller Alignment - Mechanics	AIMCAL Web Handling Conf, Europe, June, 2012	5			conference	AIMCAL	self	RollerAlign Mechanics	RollerScan	doc		

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9781	o	winding	01-Jan-12		Roisum, David R.	Optimization by Integrating Engineering and Business Models 2	AIMCAL Web Handling Conference	5		concludes that the only “best” that makes sense in an industrial environment is that which will minimize total costs. To find this best we must integrate engineering and business models	conference	AIMCAL	Self	Optimization2	MiscScan	doc	05-Feb-10	
9786		nip;roller;cover;hardness;design	01-Jan-12	1	Roisum, David R.	What is the best cover hardness	Converting Quarterly, qtr 1, 2012	4			magazine	AIMCAL	self					
9886		control;tension	01-Apr-12	1	Roisum, David R.	What are the three essentials of good tension control?	Converting Quarterly, qtr 2, 2012	3			magazine	AIMCAL	self					
9887		product_development	01-Apr-12	2	Roisum, David R.	How Web-Product Development impacts web handling - for better or worse	Converting Quarterly, qtr 2, 2012	5			magazine	AIMCAL	self					
9900		wide;narrow;web;roller;align;deflection;wrinkle	01-Aug-12	1	Roisum, David R.	How does narrow-web handling differ from wide web?	Converting Quarterly, qtr 3, 2012	4			magazine	AIMCAL	self					
9921		defect;diagnose;troubleshoot	01-Feb-13	1	Roisum, David R.	What is the best way to diagnose and cure a "rare" web defect"	Converting Quarterly, qtr 1, 2013	3			magazine	AIMCAL	self					
9932		defect;diagnose;roll;wobble;vibration	01-May-13	2	Roisum, David R.	What can cause "roll wobble"	Converting Quarterly, qtr 2, 2013	3			magazine	AIMCAL	self					
10000		load_cell;tension;calibrate	01-Aug-13	2	Roisum, David R.	How and Why should we be Calibrating Load Cells	Converting Quarterly, qtr 3, 2013	4			magazine	AIMCAL	self					
10006		wind;defect;tension;gage_band;bagginess	01-Dec-13	2	Roisum, David R.	New methods to screen wound rolls for bagginess	Converting Quarterly, qtr 4, 2013	5			magazine	AIMCAL	self					
10005		wind;defect;tension;gage_band;bagginess	01-Dec-13	1	Roisum, David R.	Is the winder at fault?	Converting Quarterly, qtr 4, 2013	4			magazine	AIMCAL	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
10017		troubleshoot;problem_solving;management	01-Jan-14	1	Roisum, David R.	What can we do to avoid haviing web-handling problems in the first place	Converting Quarterly, qtr 1, 2014	4			magazine	AIMCAL	self					
10029		material_properties;strength,stiffness;thicknes	01-May-14	2	Roisum, David R.	What happens to web handling when you combine materials	Converting Quarterly, qtr 2 2014	4			magazine	AIMCAL	self					
10026		wind;nonwoven;roll_defect	07-May-14	10	Roisum, David R.	Solutions for Winding Nonwovens	INDA, CAB Conference, May 7, 2014	4			conference	INDA	self	Web101.80 WindNonwovensInda				
10071		nip;roller;force;calibration;maintenance	01-Sep-14	2	Roisum, David R.	Why should all machines be field-calibrated in engineering units	Converting Quarterly, qtr 3 2014	4			magazine	AIMCAL	self					
10105		drive;stop;tension;emergency	01-Dec-14	1	Roisum, David R.	What's the best way to stop and start a web machine?	Converting Quarterly, qtr 4 2014	4			magazine	AIMCAL	self					
10109		time_cycle;productivity;speed;wind	01-Jan-15	1	Roisum, David R.	How can we achieve the need for speed and high-quality productivity?	Converting Quarterly, qtr 1, 2015	4			magazine	AIMCAL	self					
14083		roller;span;length;wrinkle	01-Apr-15	1	Roisum, David R.	What is the best span length?	Converting Quarterly, qtr 2, 2015	4			magazine	AIMCAL	self					
14084		machiine;design;review;roller;control;specification	01-Apr-15	4	Roisum, David R.	Doing a Web-Machine Design Review	Converting Quarterly, qtr 2, 2015	5			magazine	AIMCAL	self					
14106	o	roller;stress;model;tension;drive;roller;misalign;curl;bend	07-Jun-15		Roisum, David R.	Combined Stresses for Webs Going Over Rollers	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	self					
14093		roller;deflection;spread	01-Jul-15	1	Roisum, David R.	Can I run a web off-center?	Converting Quarterly, qtr 3, 2015	4			magazine	AIMCAL	self					
14168		problem_solving;troubleshooting;wind;calender	01-Jul-16	1	Roisum, David R.	How do we properly count the knobs on our converting machinery	Converting Quarterly, qtr 3, 2016	4			magazine	AIMCAL	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
14171		web-handling;literature;publication	01-Jul-16	3	Roisum, David R.	Variety of technical resources will secure the future of web handling	Converting Quarterly, qtr 3, 2016	4			magazine	AIMCAL	self					
14174		weight;thickness;profile;measure;wind;defects	01-Oct-16	1	Roisum, David R.	What are some of the problems with profile variations	Converting Quarterly, qtr 4, 2016	3			magazine	AIMCAL	self					
5443		winder;machine;theory;roll_structure;measurement	08-May-08	46	Roisum, David R. and Jones, Dilwyn and Walker, Timothy J	Winding: Equipment, Mechanics & Roll Quality	AIMCALapplied Web Handling Conf, Shortcourse Notes, May 8, 2008	10			CourseNotes	AIMCAL	Self	WindingShortCourseAWEB08	BookScan	doc and pdf	23-Dec-09	
1984	o	core;precut	01-Oct-89	4	Roper, Lynn W.	Precut and Precapped Paper Mill Cores - Reducing Cost and Improving Quality	TAPPI Finishing and Converting Conf. Proc., Kansas City MO, pp 145-148, Oct 1-5 1989				conference	TAPPI	Sonoco					
1985		film;plant;process;control;coating;computer;handling	29-Apr-88		Rosenberg, H. Peter	Automation in Web Processing	Proceedings-SPI/SPE Plastics Show & Conference Publ by Soc o											
1986		roll;storage	01-Jun-90		Rosenberg, J.	On-Line Storage Systems												
1987		caliper;measure;density;test	01-Jan-77		Rosenthal, M.R.	Effective Thickness of Paper: Appraisal and Further Development	USDA Forest Service Research, Paper FPL 287, 1977											
3567	o	web;stresses;model	06-May-08	1	Ross, Brant	Initial Application of Multi-Flexible Body Dynbamics Software	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	MotionPort					

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5955	o	concave;roller;spreader;model	18-May-10	1	Ross, Brant	3D Analytical Comparision of Cross Web Stains and Their Relationship to Wrinkle Formation	Applied Web Handling Conf, AIMCAL AWEB, Rochester, May 17-20	3	http://www.aimcal.org/association/aweb10/abstracts.asp?RECORD_KEY=filename&filename=ross	Wrinkle formation is an important topic in web handling but is difficult to observe or understand. Cross web strain is an important indicator of the potential for wrinkle formation on roller entry	conference	AIMCAL	MotionPort LLC	AWEB/AWEB10	AWEB2010	pdf	04-Jun-10	
3407	o	guide;edge_sensor	07-May-06	1	Ross, Robby	New Wide Band Sensor Technologies	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Fife					
5769		wind;duplex;design	01-Oct-92	7	Roth, Douglas C and Raxter, Jerry	New Design Duplex Winder from Conception to Operation	Tappi J., vol 75, no 10, pp 157-163, Oct 1992	2	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4816&DID=514646	A new, high-torque, center-wind duplex winder was designed to provide advanced roll structure control enabling jumbo rolls to be wound with consistently reliable roll quality	magazine	TAPPI	Beloit	DuplexWindOperation	WindGeneralScan	doc and pdf	06-Nov-09	commercial
5768		wind;duplex;design	02-Jan-97	7	Roth, Douglas C.	How to Build a Jumbo Roll and Other Winding Tricks	CPPA 79th Annual Mtg preprints, pp B215-220, 1993	2			conference	CPPA	Beloit	JumboRollWind	WindGeneralScan	doc and pdf	06-Nov-09	commercial
3154	o	core;cutter	26-Oct-03		Roth, Paul	Core Competencies - Understanding the Base for Quality Winding (Appleton Mfg)	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003					AIMCAL	Appleton Mfg					
3396	o	core;winder	07-May-06	1	Roth, Paul	Core competency - foundation of a web	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Appleton Mfg					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
1990		roller;balance	01-Oct-84	4	Rothenbacher P. and Vomhoff E.	Mass Centering of Cast-Iron Rolls	TAPPI Finishing and Converting Conf. Proc., pp 31-34, Oct 1984				conference	TAPPI						
1991	o	calender;print	02-Oct-94	10	Rothfuss, U.	A Review of Surface Characteristics and Printing Results from Soft Supercalendered Papers	TAPPI Finishing and Converting Conf. Proc., Chicago, pp 133-142, October2-5, 1994	2	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5515&DID=522852	both on-line and off-line soft calenders for calendering a complete rang of paper grades have established themselves on the market in addition to the proven supercalenders.	conference	TAPPI						
5770		wind;level;spool;traverse	01-Apr-99	4	Rothwell, Neal	Spooled Products - The Way to Higher Productivity	Nonwovens Industry, pp 166-172, April 1999	4			magazine	Nonwovens Industry	Double R Controls	SpoolLevel Wind	WindGeneralScan	doc and pdf	24-Oct-09	
1992		calender;paper;property	01-Jan-91		Rounsley, R.	How Paper Properties can be Developed Using Different Methods of Calendering	Tappi J., vol 74, no 1, Jan 1991				magazine	TAPPI						
1993	o	wind;core;stress;model	21-Sep-97	4	Rousserie, F. and Pouyeet, J. and Corretja, X. and Huyghe, M.	Mechanical Behavior of Spirally Wound Paperboard Cores	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 59-62, September 21-24, 1997	4	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5326&DID=511806	characterize the spiral core in the loading case of three-point-bending mode. The experimental study has required the design and the validation of a static test bench. Cores have been tested with varying tests conditions	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
14144		wind;hardness;quality;measurement;instrument	09-Sep-16	1	Rowell, Mickey	New Technology for measurement of Roll Hardness	AIMCAL Fall US Web Conf, Memphis, Sept 9-12, 2016	4			conference	AIMCAL	Technidyne					
1994		strain;moire;extensometers;operation;analytical;paper board;tes	01-Aug-83	4	Rowlands, R.E. and Beazley, P.K. and Gunderson, D.E.	Moire Strain Analysis of Paper	Tappi J., vol 66, no 8, pp 81-84, Aug 1983				magazine	TAPPI						
1995		paper;property	01-Jan-80	11	Roylance, David and McElroy, Paul and McGarry, Frederick	Viscoelastic Properties of Paper	Fibre Science and Technology, 13(1980), pp 411-421				magazine							
1996		blowing;machine;grooving;press;nip;felt	01-Jan-77	4	Royo, Michael A.	Blowing on an Experimental Paper Machine	Tappi J., vol 60, no 1, pp 163-166, Jan 1977				magazine	TAPPI						
1997		wind;duplex	01-May-89		Rubb, H.	Duo-Roller II - The New Winding Concept for Jumbo Rolls.	Wochenbl. Papierfabr., May 1989											
3365		roller;cover;design;book;construction	01-Jan-05	260	Rubber Roller Group	Elastomeric Roll Covering	Rubber Roller Group, 2005	10			Book							
1998		web_break;runnability;video	01-Jan-95		Rudnicki, D., and Lindstol, K. and Chatterjee, A.	Visualization of the role of defects in web breaks	Video and film presented at the 1995 International Paper Physics Conf.											
3431	o	dryer	18-Sep-06		Ruecki, Todd J.	Dryer Technology for Flexible Packaging Laminations	TAPPI PLACE Conf, Cincinnati, September 17-21, 2006				conference	TAPPI	MEGTEC					
1999		air;flotation;oven	04-Oct-94	12	Rueckl, Todd J.	Thin film Web Handling in Floater Dryers	AIMCAL 1994 Fall Tech. Conf. Proc., Atlanta, pp 233-244, Oct 4-5, 1994					AIMCAL	MEGTEC					
2000	o	wind;large_roll	16-Mar-87	6	Ruff, H.	A New Approach to Good Jumbo Rolls	Winding Technology Conf. Proc., Swedish Newsprint Research Center (TFL), Stockholm, Mar 16-171986				conference	STFL						
14170		slitting;shear	01-Jul-16	2	Rumson, Dave	Why use dual shaft shear slitting	Converting Quarterly, qtr 3, 2016	3			magazine	AIMCAL	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
14176		slitting;shear;grind;maintenance	01-Oct-16	2	Rumson, Dave	What negative effects can poor knife re-sharpening have	Converting Quarterly, qtr 3, 2016	4			magazine	AIMCAL	self					
5633		slit;shear;design;maintenance;troubleshoot		52	Rumson, David	Slitting Reference Guide	Dienes Manual	10			manual	Dienes	Dienes	SlitReferenceDienes	SlitScan	doc and pdf	16-Sep-09	
5634		slit;crush;design;maintenance;troubleshoot		52	Rumson, David	Crush Cutting Reference Guide	Dienes Manual	10			manual	Dienes	Dienes	SlitReferenceDienes	SlitScan	doc and pdf	16-Sep-09	
2704		slitter_positioning	01-Apr-00	3	Rumson, David	Slitter positioning: a practical primer	Converting Magazine, Slitter-Rewinder supplement, pp 12-14, April 2000				magazine	Converting Magazine	Dienes					
2787	o	slitter;blade;holder;vibration;design	01-Feb-01	2	Rumson, David	Knifholder advancements cut impact of vibration	Converting Magazine, Slitter Rewinder Supplement, pp 10-12, February 2001				magazine	Converting Magazine	Dienes					
3035	o	slitting	13-Apr-03	5	Rumson, David	Inline Slitting - Minimizing Coating Surface Damage	CEMA Coating and Laminating Seminar, Chicago, April 15, 2003				shortcourse	CEMA	Dienes					
3156	o	slitter;setup;dust	26-Oct-03		Rumson, David	Slitter Coating Damage and Slitter Dust Common Causes and Recommendations (Dienes)	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003					AIMCAL	Dienes					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3223	o	slitter;razor;crush;shear	29-Aug-04		Rumson, David	Razor, Crush and Shear Slitting Principles: Advantages and Disadvantages for Film and Foil Applications	TAPPI PLACE Conf, Indianapolis, August 29, 2004	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5053&DID=525906	slitting film or foil, razor, crush cutting and shear slitting offer certain advantages and disadvantages. The factors of operational choice involve the material itself, the parameters of operation, the varying costs and pertinent safety factors	conference	TAPPI	Dienes					
3344	o	slitter;positioning	26-Sep-05		Rumson, David	Benefits of Automatic Computer Positioning Systems	TAPPI PLACE Conf, Las Vegas, September 26, 2005	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5026&DID=526539	Although this is not a scientific survey it does identify key finishing and converting improvement potential for end users weighing the purchase of an automatic slitter positioning system.	conference	TAPPI	Dienes					
3402	o	slitting	07-May-06	1	Rumson, David	Controlling shear knife contact forces	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Dienes					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5944	o	shear;slitter;design	18-May-10	1	Rumson, David	A PARADIGM SHIFT IN KNIFE HOLDER SLITTING TECHNOLOGY	Applied Web Handling Conf, AIMCAL AWEB, Rochester, May 17-20	2	http://www.aimcal.org/association/aweb10/abstracts.asp?RECORD_KEY=filename&filename=rumson2	Although shear knife holders and positioning systems have advanced during this time, there are some basic operating requirements that remain limited in efficiency and usefulness relative to today?s computer controlling capabilities.	conference	AIMCAL	self	AWEB/AWEB10	AWEB2010	pdf	04-Jun-10	
5945	o	shear;slitter;data_acquisition	18-May-10	1	Rumson, David	ELECTRONIC KNIFE HOLDER OPERATION AND THE POTENTIAL FOR CONTROLLING THE SLITTING PROCESS WITH REAL TIME DATA ACQUISITION	Applied Web Handling Conf, AIMCAL AWEB, Rochester, May 17-20	2	http://www.aimcal.org/association/aweb10/abstracts.asp?RECORD_KEY=filename&filename=rumson1	how encoders and load cells can be employed to collect data of Shear Angles and Overlap settings, Blade Side Load Force changes, and Blade Rotating Speeds	conference	AIMCAL	self	AWEB/AWEB10	AWEB2010	pdf	04-Jun-10	
6025	o	shear;slitter;design	01-Feb-11	1	Rumson, David	How long should knife blades last in shear slitting?	Converting Quarterly, AIMCAL, pp 18, Feb 2011	2		ten different factors affect knife life	magazine	AIMCAL	Self					
6127		shear;slit;overlap	01-Sep-11	1	Rumson, David	What are the negative effects of excessive top-knife overlap	Converting Quarterly, qtr 3, 2011	3		overlap increase friction, wear, degrades cut	magazine	AIMCAL	self					
6128		shear;slit;automation	01-Sep-11	3	Rumson, David	Servomechanism-controlled shear knifeholders: Their perfomance benefits, potential for data collection	Converting Quarterly, qtr 3, 2011	3			magazine	AIMCAL	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9773		slit;blade;material;wear	01-Nov-11	1	Rumson, David	What are some common slitting blade materials and their properties	Converting Quarterly, qtr 4, 2011	2		slitting	magazine	AIMCAL	self					
9902		slitter;blade;maintenance;design	01-Aug-12	4	Rumson, David	Nine practical matters for achieving better shear slittting	Converting Quarterly, qtr 2, 2012	3			magazine	AIMCAL	self					
9901		slitter;blade;roughness	01-Aug-12	1	Rumson, David	What is the effect of a smooth or rough knife-blade surface	Converting Quarterly, qtr 2, 2012	3			magazine	AIMCAL	self					
9924		score;knife;slitting	01-Feb-13	1	Rumson, David	What is the impact of crush-knife metal fatigue and shock loading	Converting Quarterly, qtr 1, 2013	4			magazine	AIMCAL	self					
9934		score;knife;slitting;adhesives	01-May-13	1	Rumson, David	How can we best slit adhesive webs?	Converting Quarterly, qtr 2, 2013	4			magazine	AIMCAL	self					
10004		slitting;razor;crush;shear	01-Aug-13	2	Rumson, David	How do razor, crush and shear slitting methods differ?	Converting Quarterly, qtr 3, 2013	3			magazine	AIMCAL	self					
10011		slitter;trim_handling;trim_chute	01-Dec-13	1	Rumson, David	What are the best methods for trim and bleed slitting	Converting Quarterly, qtr 4, 2013	4			magazine	AIMCAL	self					
10019		slitter;shear;side-load	01-Jan-14	1	Rumson, David	How can understanding pneumatic knifeholder operation improve slitting	Converting Quarterly, qtr 1, 2014	4			magazine	AIMCAL	self					
10033		slitter;razor;shear;heat_shrink	01-May-14	1	Rumson, David	How do you stop slitting frictin heat from damaging shrink film?	Converting Quarterly, qtr 2, 2014	4			magazine	AIMCAL	self					
10034		slitter;shear;positioning;history	01-May-14	6	Rumson, David	Web roll-making history and automatic slitter positioning	Converting Quarterly, qtr 2, 2014	4			magazine	AIMCAL	self					
10074		slitter;shear;maintenance	01-Sep-14	2	Rumson, David	How do you determine bottom-knife run-out and concentricity	Converting Quarterly, qtr 3 2014	4			magazine	AIMCAL	self					
10093		slitting	20-Oct-14		Rumson, David	Slitting Process Advancements - Technology to Improve the Bottom Line	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014	4			conference	AIMCAL	self					

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10111		slitter;razor;sharp	01-Jan-15	1	Rumson, David	How does maintaining razor-blade sharpeness solve film slitting defects	Converting Quarterly, qtr 1, 2015	4			magazine	AIMCAL	self					
14088		crush;score;slitters	01-Apr-15	1	Rumson, David	What are the proper forces on knives and holders for good crush cutting	Converting Quarterly, qtr 2, 2015	4			magazine	AIMCAL	self					
14095		slitter;crush;slip;overspeed	01-Jul-15	1	Rumson, David	When is web slippage a slitting advantage	Converting Quarterly, qtr 3, 2015	3			magazine	AIMCAL	self					
14096		slitter;design;application;shear	01-Jul-15	5	Rumson, David	Twelve dimensional & dynamic factors for efficient shear slitting	Converting Quarterly, qtr 3, 2015	4			magazine	AIMCAL	self					
14102		slitter;shear;design	01-Oct-15	1	Rumson, David	In shear slitting, is a wrapped o tangential web path the best solutin?	Converting Quarterly, qtr 3, 2015	4			magazine	AIMCAL	self					
14132		slitter;shear;design	09-Sep-16	1	Rumson, David	Practical day to day slitting Practice	AIMCAL Fall US Web Conf, Memphis, Sept 9-12, 2016	3			conference	AIMCAL	self					
14140		slitter;shear;design	09-Sep-16	1	Rumson, David	Dealing with Shear Slitting Defect Complexity	AIMCAL Fall US Web Conf, Memphis, Sept 9-12, 2016	3			conference	AIMCAL	self					
2001		quality_control;statistics	01-Jan-95	7	Rutherford, John H.	How to Perform Process Capability Studies	Tappi J., vol 78, no 1, pp 176-182, January 1995	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4742&DID=518566	capability index, which compares the natural tolerance of the process to specification limits, is calculated. A process capability study is done to determine whether a process is capable of performing within specifications	magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5511		measure;online;thickness;moisture;basis_weight;paper	01-Jun-87	4	Rutledge, W. 'Cy'	Sensors for Pulp & Paper: Advances, Trends, Needs	InTech, June 1987.	3			magazine	InTech	Mead Paper	SensorsForPaper	MeasurementScan	doc and pdf	30-Dec-09	
9804			10-Jun-12		Ruttens, Frank	Efficient and Faster Time-to-Market Using Hansen Solubility Parameters (HSP)	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Agfa-Fevaert					
2003		nonwoven;video;instrument;inspection	01-Jun-95	4	Ruuska, Hannu and Akerberg, Ingvar	Practical Inspection Systems for Nonwoven Diaper Liner Fabrics	Tappi J., vol 78, no 6, pp 181-184, June 1995	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4744&DID=518325	Cameras, defects, diapers, disposables, fabric, inspection, measurement, nonwovens, on line measurement, quality control, utilization, webs.	magazine	TAPPI						
5586		roller;rubber_cover;nip_width;footprint;pressure;calculation	04-Dec-70	2	Ryder, Lyle	Rubber Covered Roll Nip Calculations Made with a Computer	Paper Trade J., December 14, 1970	4			magazine	Paper Trade J	Raybestos-Manhattan	RubberCoverRollNipCalc	RollerScan	doc and pdf	19-Dec-09	
9999		defect;detection;marking	01-Jul-13	3	Rye, Timothy	Advances in Mrking Technologies for Defect Identification	PaperAge, July/August 2013	2			magazine	PaperAge						
10016		defect;mark;detect	01-Dec-13	3	Rye, Timothy	Advances in marking technology for defect identification	Converting Quarterly, qtr 4, 2013	4			magazine	AIMCAL	Ryeco					
2005	o	tension;acoustic;air entrainment;vibration;measurement	14-Oct-88	4	Rye, Timothy W.	Using Tenscan to Measure the Tension Profile	TAPPI Finishing and Converting Conf. Proc., Richmond, pp 175-178, Oct 2-6 1988				conference	TAPPI						
2006		tension;profile;measure	01-Jan-89	4	Rye, Timothy W.	Using Tenscan to measure the Tension Profile	Quality Assurance: Its Management and Techniques, 1st ed, TAPPI, Atlanta, pp 543-546, 1989											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2007		roll structure;pressure;stress;friction;measurement;experiment	23-Oct-72		Ryti, N. et al	A Method to Measure the Structure of Newsprint Rolls and Its Use	TAPPI Finishing and Converting Conf. Proc., 1972				conference	TAPPI						
2008		nip;stress;contact	01-Feb-83	5	Sackfield, A. and Hills, D.A.	Some Useful Results in the Classical Hertz Contact Problem	J. of Strain Analysis, vol 18, no 2, pp 101-105,1983				magazine							
2009		sheet	01-Jan-91		Sakurabuyashi, A.	The Peformance Edge Ultra Sheeter	Japan Tappi J., Jan 1991				magazine							
2010		core;radial;pressure;test	01-Jan-97	4	Saliklis, Edmond P and Rowlands, Robert E.	A Novel Radial Compression Testing Device for Tubes	Tappi J., vol 80, no 1, pp 234-237, January 1997	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4855&DID=520957	method continuously monitors the magnitude of the applied radial pressure. Calibration tests on aluminum tubes ensured uniformity of pressure around the specimen circumference and along its length. Strain gauges	magazine	TAPPI						
2011		roll;weight;calculation;measurement;diameter	01-Dec-79		Saltman, D.	Why Roll Weight Formulas Can Be Off as Much as 10%	Printing Impressions, vol 22, no 7, pp 24 25											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3764	o	winding;tnt;tension;nip;torque	01-Dec-09	2	Samuels, Gary	5s (Sort/Set/Shine/Standardize/Sustainability)	Converting Magazine, vol 27, no 12, pp 24-25, Dec 2009	4	http://www.convertingmagazine.com/article/438860-5s_Sort_Set_Shine_Standardize_Sustainability_.php	5s is not simply about cleaning up the shop floor. It's an ideal that reshapes how you think about a workplace and provides a foundation for significant improvements.	magazine	Converting Magazine	Dunmore					
2012	o	winding;	16-Mar-87	4	Samuelsson, B.	Experiences From the Winding System as Hylte Bruk	Winding Technology Conf. Proc., Swedish Newsprint Research Center (TFL), Stockholm, Mar 16-171986				conference	STFL						
2013		paper;property;macrostructure;stress	01-Jun-62	10	Sanborn, I. Bruce	A Study of Irreversible, Stress-Induced Changes in the Macrostr	Tappi J., vol 45, no 1, pp 465-474, Jun 1962				magazine	TAPPI						
2014		web;heat_transfer;conductivity;measure	01-Jan-83	9	Sanders, D.J. and Forsyth, R.C.	Measurement of Thermal Conductivity and Contact Resistance of Paper and Thin-Film Materials	Rev. Sci. Instrum. vol 54, no 2, pp 238-244, 1983											
2016	o	winder;automation;control;optimization	14-Oct-88	3	Sangder, Tom E.	New Features in Winder Automation	TAPPI Finishing and Converting Conf. Proc., Richmond, pp 31-34, Oct 2-6 1988				conference	TAPPI						
2015		wind;control	01-May-90		Sangder, Tom E.	New Winder Control Concept	EUCEPA Conf. Proc., Stockholm, May 1990				conference							
2017		paper;property;electrical;resistance;electrode;measurement	01-Jun-82	3	Sapieha, S. and Lepoutre, P.	On the Measurement of Conductivity in Paper	Tappi J., vol 65, no 6, pp 99-101, Jun 1982				magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2724		wind;model	01-Jan-70		Sarkela, V.	A Simulation Model for Paper Winding	Master's thesis, Helsinki University of Technology, 1970				thesis							
2018		load_cell;tension	01-Feb-96	3	Sarnelli, Robert	New Measurement Technology Improves Web Control	Paper, Film & Foil Converter, vol 70, no 2, pp 48-50, February 1996				magazine	Paper Film Foil Converter						
2019		furnace;dry;lateral;buckling	01-Jan-84		Sasaki et al	Control of Strip Buckling and Snaking in Continuous Annealing Furnace	Kawasaki Steel Giho, vol 16, no 1, pp 37, 1984											
3318	o	winder;drum;groove	05-Jun-05	10	Sasaki, M. and Kohno, K. and Tanimoto, K. and Takahshi, S. and Suzuki, S. and Hashimoto, H.	In Roll Stress Analysis considering Air Entrainment at the Roll Inlet with the Effect of Grooves on the Nip Roll Surface	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC						
3736			01-Jan-08		Sasaki, M. and Tanimoto, K. and Kohno, K. and Takahashi, S and Kometani, H.	In-Roll Stress Analysis Considering Air-Entrainment at the Roll Inlet with the Effect of Grooves on Nip Roll Surmaces	JSME, J Advanced Mechanical Design, vol 2, pp 133-145, 2008											
3071	o	traction;air_entrain	01-Jun-03	8	Sasaki, M. and Tanimoto, K. and Kohno, K. and Takahashi, Sadamu and Suraki, S. (Mitsubishi)	Traction Force Between Rotating Roll and Moving Web Considering the Effect of Air-Entrainment and Friction	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC						
3739		wind;air_entrain	01-Jan-08	12	Sasaki, M. and Tanimoto, K., and Kohno, K. and Takahashi, S. and Kometani, H and Hashimoto, H.	In-Roll Stress Analysis Considering Air-Entrainment at the Roll Inlet with the Effect of Grooves on Nip Roll Surface	J of Advanced Mechanical Design Systems and Mf, vol 2, 2, pp 133-145, 2008				magazine							

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3387	o	roller;alignment	07-May-06	1	Sasikumar, Arun	Inertial Roll Alignment for Diagnosing and Preventing Web Handling Problems	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Pruftechnik					
2020		steel;buckling;lateral	01-Sep-84		Sassaki, Hira, Abe, Yangagishim, Shimoyama and Tahara	Control of Strip Buckling and Snaking in Continuous Annealing Furnace	Kawasaki Steel Technical Report, no 9, March 1984											
2021		adhesive;book	01-Jan-82		Satas, Donatas	Handbook of Preessure-Sensitive Adhesive Technology	Van Nostrand Reinhold Co. Inc, 1982	10			Book		Self					
2022	o	convert;finish;coat;wind;laminate;print;book	01-Jan-84	540	Satas, Donatas	Web Processing and Converting Technology and Equipment	Van Nostrand Reinhold Co. Inc., 1984	10			Book		Self					
2023		coatings;book	01-Jan-91		Satas, Donatas	Coatings Technology Handbook	Marcel Dekker, New York, 1991	10			Book		Self					
2024		convert;machine;survey	01-Jun-90		Sato, T. and Ishikawa, T.	Recent Trends Seen in Finishing Process Equipment	Japan Pulp & Paper, Jun 1990											
2025		nip;roller	01-May-88	77	Sattar, Mohammed Arif	Experimental Evaluation of the Effect of a Nip on Wound Rolls	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						
2026	o	linerboard;print	02-Oct-94	2	Savana, M.J. and Chan, T.P.	Benefits of Preprinted Linerboard	TAPPI Finishing and Converting Conf. Proc., Chicago, pp 87-88, October2-5, 1994				conference	TAPPI						

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2647	o	pneumatic;trim;removal	03-Oct-99	4	Scalf, James E	Pneumatic Trim Conveying System Operation and Maintenance …	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 77-85, October 3-7, 1999	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5187&DID=508200	broke system degradation are: (a) an overly simplistic view of broke handling systems and (b) improper system operation and maintenance. A second observation is that there are innovative means available to improve system reliability	conference	TAPPI	Quickdraft					
2028	o	slit;maintenance	01-Oct-90	18	Schable, Reinhold	Slitter Performance, Problems and Solutions	TAPPI Finishing and Converting Conf. Proc., Lake Buena Vista FL, pp 65-82, Oct 7-10 1990	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5730&DID=515344	The ability to understand the exact cause of a slitter problem and what to do to correct it will ensure a continued share of an increasingly competitive market	conference	TAPPI	Tidland					
5655		slit;shear	01-Oct-90	17	Schable, Reinhold	Slitter Performance	TAPPI J, vol 73, no 10, Oct 1990	4			magazine	TAPPI	Tidland	SlitPerformanceSchableII	SlitScan	doc and pdf	16-Sep-09	
2029	o	slit;maintenance	01-Oct-90	9	Schable, Reinhold	Slitter Performance, Problems and Solutions	Tappi J., vol 73, no 10, pp 131-139, October 1990				magazine	TAPPI	Tidland					
5643		slit;shear	07-Oct-90	17	Schable, Reinhold	Slitter Performance	TAPPI Finishing and Converting Conf, pp 65-82, Oct 7, 1990	4			conference	TAPPI	Tidland	SlitPerformanceSchabel	SlitScan	doc and pdf	14-Sep-09	

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2030	o	slit;life	07-Oct-90	8	Schable, Reinhold	Knife Life and How to Get It	TAPPI Finishing and Converting Conf. Proc., Lake Buena Vista FL, pp 83-90, Oct 7-10 1990				conference	TAPPI	Tidland					
2031		slit;productivity	01-Jan-91		Schable, Reinhold	Upgrading Slitters for Increased Productivity without Resorting to Black Magic	77th Canadian Pulp and Paper Association Conf. Proc.						Tidland					
2034	o	slit;shear;design;maintenance	01-Jan-92		Schable, Reinhold	Spotlight on Slitting	Paper, Film & Foil Converter, Reprint of Jan, Mar, Apr, Aug, Sept & Oct 1992 Issues				magazine	Paper Film Foil Converter	Tidland					
5656		slit;shear;design;maintenance;troubleshoot	01-Jan-92	23	Schable, Reinhold	Spotlight on Slitting	Paper, Film & Foil Converter, Supplement, 1992	5			magazine	Paper Film Foil Converter	Tidland	SlitSpotlightSchable	SlitScan	doc and pdf	16-Sep-09	
2033		slit;maintenance	01-Jan-92		Schable, Reinhold	Wrong Cant Angle Settings Cause Poor Slitting Quality	Paper, Film & Foil Converter, vol 66, no 1, Jan 1992				magazine	Paper Film Foil Converter	Tidland					
2032		slit	01-Jan-92		Schable, Reinhold	Spotlight on Slitting	Paper, Film & Foil Converter, vol 66, no 1, Jan 1992				magazine	Paper Film Foil Converter	Tidland					
2035		slit;design	01-Mar-92		Schable, Reinhold	Axial, Radial Runout Can Hurt Blades, Cut Quality	Paper, Film & Foil Converter, vol 66, no 3, Mar 1992				magazine	Paper Film Foil Converter	Tidland					
2036		slit	01-Apr-92		Schable, Reinhold	Perfect Slitting	Pap. Kunstst. Verarb., Apr 1992						Tidland					
5640		slit;shear;metallurgy;drive;cut_quality	01-Sep-92	43	Schable, Reinhold	Bladerunner's Seminar	Bladerunner's Seminar	10			CourseNotes	Tidland	Tidland	BladeRunnerSeminar	SlitScan	doc and pdf	10-Sep-09	
5649		slit;shear;slitter_ring;maintenance	01-Sep-92	4	Schable, Reinhold	Stayng Sharp Instrumental to Slit Quality, Blade Life	Paper, Film & Foil Converter, pp 140-143, Sep 1992	4			magazine	Paper Film Foil Converter	Tidland	SlitSharpSchable	SlitScan	doc and pdf	15-Sep-09	
2038		slit;shear;paper;dust	01-Jan-93	2	Schable, Reinhold	Excessive Dusting Problems Minimized with Adjustments	Paper, Film & Foil Converter, vol 67, no 1, pp 58-59, Jan 1993				magazine	Paper Film Foil Converter	Tidland					
2039		slit;shear;nonwoven;dust	01-Feb-93	2	Schable, Reinhold	Controlling Dust Reduction For Nonwovens Tough Chore	Paper, Film & Foil Converter, vol 67, no 2, pp 58-60, Feb 1993				magazine	Paper Film Foil Converter	Tidland					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2040		slit;shear;carbonless_paper	01-Mar-93	2	Schable, Reinhold	Slitting Carbonless Paper	Paper, Film & Foil Converter, vol 67, no 3, pp 62-63, Mar 1993				magazine	Paper Film Foil Converter	Tidland					
2041		slit;shear;polypropylene;film	01-Apr-93	2	Schable, Reinhold	Slitting Polypropylene Film	Paper, Film & Foil Converter, vol 67, no 4, pp 82-83, Apr 1993				magazine	Paper Film Foil Converter	Tidland					
2042		slit;shear;tissue;paper	01-May-93	2	Schable, Reinhold	Techniques for Tissue Slitting	Paper, Film & Foil Converter, vol 67, no 5, pp 152-153, May 1993				magazine	Paper Film Foil Converter	Tidland					
2043		slit;shear;film;paper	01-Jul-93	1	Schable, Reinhold	Perplexing Poly Problem	Paper, Film & Foil Converter, vol 67, no 7, pp 60, July 1993				magazine	Paper Film Foil Converter	Tidland					
5648		slit;shear;slitter_ring	01-Aug-93	2	Schable, Reinhold	Annular Rings Offer Clues	Paper, Film & Foil Converter, vol 67, no 8, pp 78-79, Aug 1993	3			magazine	Paper Film Foil Converter	Tidland	SlitRingSchable	SlitScan	doc and pdf	15-Sep-09	
2045		slit;methods	01-Sep-93	2	Schable, Reinhold	Changing Slitting Methods	Paper, Film & Foil Converter, vol 67, no 9, pp 82-82, Sept 1993				magazine	Paper Film Foil Converter	Tidland					
2046		slit;shear;foil	01-Oct-93	2	Schable, Reinhold	Aluminum Foil Slitting Tips	Paper, Film & Foil Converter, vol 67, no 10, pp 78-79, Oct 1993				magazine	Paper Film Foil Converter	Tidland					
2047		slit;shear;blade_life;metal;wear	01-Nov-93	2	Schable, Reinhold	Variables Key in Success of Slitting Alkaline Papers	Paper, Film & Foil Converter, vol 67, no 11, pp 66-67, Nov 1993				magazine	Paper Film Foil Converter	Tidland					
2048		slit;label;adhesive	01-Dec-93	2	Schable, Reinhold	Slitting Pressure Sensitives	Paper, Film & Foil Converter, vol 67, no 12, pp 43-44, Dec 1993				magazine	Paper Film Foil Converter	Tidland					
2638		slitter;blades	01-Sep-99	3	Schable, Reinhold	Factors to consider in choosing shear blade profiles	Converting Magazine, vol 17, no 9, pp 66-68, September 1999				magazine	Converting Magazine	Tidland					
5654		slit;score	01-Nov-99	4	Schable, Reinhold	Five factors to consider in choosing score slitting	Converting Magazine, pp5861, Nov 1999	4			magazine	Converting Magazine	Tidland	SlitScoreFiveSchable	SlitScan	doc and pdf	15-Sep-09	
2680		slitter;score;blades	01-Nov-99	3	Schable, Reinhold	Five Factors for Score Slitting	Converting Magazine, vol 17, no 11, pp 58-61, November 1999				magazine	Converting Magazine	Tidland					

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5652		slit;shear;blade;wear;maintenance	01-Feb-01	7	Schable, Reinhold	Blade wear in shear slittiing	Converting Magazine, Slitter Rewinder Supplement, pp 4-8, February 2001	4			magazine	Converting Magazine	Tidland	SlitShearBladeWearSchable	SlitScan	doc and pdf	15-Sep-09	
5642		slit;shear;knife holder	01-Apr-01	5	Schable, Reinhold	The Role of the knifeholder in productive shear slitting	Converting Magazine, vol 19, no 4, pp 118-126, April 2001	4	http://www.convertingmagazine.com/article/309873-The_role_of_the_knife holder_in_productive_shear_slitting.php	The knifeholder must be compliant, that is: it must be able to absorb axial runout and lateral vibration without destructive "chatter	magazine	Converting Magazine	Tidland	SlitHolderSchable	SlitScan	doc and pdf	14-Sep-09	
5651		slit;shear	01-Mar-02	7	Schable, Reinhold	Shear Perfection	Converting Magazine, pp 32-42, Mar 2002	4			magazine	Converting Magazine	Tidland	SlitShearPerfect	SlitScan	doc and pdf	15-Sep-09	
5653		slit;razor	01-Mar-02	3	Schable, Reinhold	Four factors to consider in razor slitting	Converting Magazine, vol 18, no 3, pp 68-70, March 2000.	4			magazine	Converting Magazine	Tidland	SlitRazorSchable	SlitScan	doc and pdf	15-Sep-09	
2937	o	shear;slitter;design;spread;trim;web_handle	01-Mar-02	6	Schable, Reinhold	"Shear" perfection	Converting Magazine, vol 20, no 3, pp 32-41, March 2002	4	http://www.convertingmagazine.com/article/310158-_Shear_perfection.php	High-quality shear slitting demands full support of the web at the slitting nip, a service provided by the lower slitter ring.	magazine	Converting Magazine	Tidland					
2941		slitter;types	01-May-02	2	Schable, Reinhold	Choosing the best Slitting Techniques	Solutions, pp 51-52, May 2002				magazine	TAPPI	Tidland					

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5914	o	slit;application;troubleshoot	01-May-02		Schable, Reinhold	Choosing the best slitting techniques	Tappi Solutions!, May 2002, Vol. 85(5)	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4829&DID=514772	diverse range of materials-ranging from ethereal, gossamer webs of microscopic filaments to bulletproof layers of stuff unimagined a few years ago-and most converters need to slit it	magazine	TAPPI	Tidland					
3014		slitter;wear	01-Apr-03	2	Schable, Reinhold	Converting oerations: Troubleshooting slitter blade wear	Solutions, pp 42, April 2003				magazine	TAPPI	Tidland					
5913	o	slit;maintenance;wear;troubleshoot	01-Apr-03		Schable, Reinhold	Converting operations: Troubleshooting slitter blade wear	Tappi Solutions!, April 2003, Vol. 86(4)	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4548&DID=510011	slitter blades wear, distinct patterns develop on the blade edges depending on the nature of the wear mechanism	magazine	TAPPI	Tidland					
5650		slit;shear;blade;wear;maintenance	01-May-03	2	Schable, Reinhold	Converting Operations: Troubleshooting slitter blade Wear Part II: Web-to-blade wear	Solutions!, pp 43-44, May 2003	4			magazine	TAPPI	Tidland	SlitBladeWearSchable	SlitScan	doc and pdf	15-Sep-09	
5912	o	slit;maintenance;wear;troubleshoot	01-May-03		Schable, Reinhold	Converting operations: troubleshooting slitter blade wear	Tappi Solutions!, May 2003, Vol. 86(5)	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4557&DID=526799	slitter blades wear, distinct patterns develop on the blade edges depending on the nature of the wear mechanism	magazine	TAPPI	Tidland					

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5647		slit;shear;maintenance	01-Dec-03	5	Schable, Reinhold	Attention to Shear Slitting Fundamentals Can Help Mills Produce Perfect Edges	Pulp & Paper, vol 77, no 12, pp 52-56, December 2003.	4			magazine	Pulp and Paper	Tidland	SlitShearFundSchable	SlitScan	doc and pdf	15-Sep-09	
5646		slit;knifeholder;safety	01-Apr-04	5	Schable, Reinhold	Proper Operation of Knifeholders Ensures Safe and Effective Slitting	Pulp & Paper, vol 78, no 4, pp 46-49, April 2004	4			magazine	Pulp and Paper	Tidland	SlitKnifeSafeSchable	SlitScan	doc and pdf	15-Sep-09	
5645		slit;score;tissue	01-Feb-06	4	Schable, Reinhold	Proper Equipment Configuration is Key to Efficient Tissue Slitting	Pulp & Paper, vol 80, no 2, pp30-32, February 2006	4			magazine	Pulp and Paper	Tidland	SlitTissueSchable	SlitScan	doc and pdf	14-Sep-09	
3401	o	slitting	07-May-06	1	Schable, Reinhold	Effects of Slitting Dynamics on edge cut quality	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Tidland					
5644		slit;shear;knifeholder	01-Mar-07	6	Schable, Reinhold	Role of the knifeholder in productive shear slitting	Converting Magazine, pp 40-47, Mar 2007	4	http://www.convertingmagazine.com/article/309468-Role_of_the_Knifeholder_in_productive_shear_slitting.php	Current knifeholders must be thought of as precision instruments, rather than blacksmith tools. As such, we expect more from them, and need to be more discerning about their usability	magazine	Converting Magazine	Tidland	SlitHolderShearSchable	SlitScan	doc and pdf	14-Sep-09	
3476	o	shear;slitter;design;spread;trim;web_handle	01-Mar-07	8	Schable, Reinhold	Shear Slitting	Converting Magazine, vol 25, no 3, pp 340-47, March 2007				magazine	Converting Magazine	Tidland					
5641		slit;shear;rigid;bulky	01-Aug-09	4	Schable, Reinhold	Shear slitting of rigid, stiff or bulky materials	Converting Magazine, vol 18, no 8, pp 94-98, August 2000	4			magazine	Converting Magazine	Tidland	SlitRigidSchable	SlitScan	doc and pdf	14-Sep-09	
2049		wind;noise;safety	01-Jul-91		Schafer, H.	Sound Reduction Measures on an Automatic Cone Winder	Melli and Textilberichte, vol 7, 1991											

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2050		material;caliper;zd;compression	01-Sep-91	22	Schaffrath, H.J. and Gottsching, L.	The Behavior of Paper Under Compression n the Z-Direction	TAPPI Paper Physics Conf. Proc., pp 489-510, Sep 1991	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5691&DID=515939	the difference in behaviour between a single sheet and a stack of sheets has to be taken into account. Conclusions have to be drawn from single sheet behaviour, in order to quantify the behaviour of multiple sheets and vice versa.	conference	TAPPI						
2051		property;friction;paper	01-Sep-93		Schaffrath, H.J. and Gottsching, L.	Determination of the Coefficieints of friction paper against paper	Das Papier, vol 47, no 9, pp 539, 1993.				magazine							
2877		converting;inhouse;outsource	01-Sep-01	4	Scharpf, Sara M.	New Options for Finishing and Converting	Solutions, vol 01, no 01, page 80-83, September 2001				magazine	TAPPI						
2052		papermaking;converting;noise;noise;acoustic;noise;instrument;am	01-Jun-73	4	Scherr, R.C. and Ostendorf, R.G. and Shuler, B.F.	Noise Reduction Techniques for Paper Converting Machinery	Tappi J., vol 56, no 6, pp 65-68, Jun 1973				magazine	TAPPI						
2053		tension;modulus	01-Jan-86	27	Scheuter, K.R. and Belau, L.	The Elasticity Modulus of a Running Web	Advances in Printing Science and Technology, vol 18, pp 201-227, Pentech Press, London, 1986											
2054		winding;roll structure;geometry	01-Oct-87	5	Schikorra, Gert E.	Winder Technology for Producing Large Rolls of High-Density Coated Paper	Tappi J., vol 70, no 10, pp 53-57, Oct 1987				magazine	TAPPI						
9807		vacuum_dep	10-Jun-12		Schiller, Dr Nicolas	Vacuum Roll-to-Roll Technologies for Transparent Barriers on Polymer Webs	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Fraunhoffer Institute					

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9791		coat	10-Jun-12		Schipper, Wilfried	Roll-to-Roll Nanoimprint: Challenges and Solutions for Volume Production of Nanostructure Functional Films	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Nanoptics GmbH					
2055		wind;yarn;hair;dust	01-Jan-91		Schlafhorst AG & Co.	Influence of the Winding Process on Yarn Hairiness	Autoconer Newsletter, vol 91/1											
2056	o	drive;ac	24-Oct-93	10	Schmid, Gerold and Werner, Peter	Advantages of the Variable Frequency Vector Drive Applied to PM Winder Backstands	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 139-148, Oct 24-27 1993				conference	TAPPI						
5587		roller;rubber_cover;nip_width;footprint;pressure;calculation	18-Mar-68	3	Schmidlin, H.L	Rubber Roll Hardness - Another Look	Pulp & Paper, pp 30-32, March 18, 1968	4			magazine	Pulp and Paper	Raybestos-Manhattan	RubberRoll Hardness	RollerScan	doc and pdf	19-Dec-09	
2058		roll;handling	01-Aug-90		Schmidt, A.	Technical and Commericail Advantages of Handling Rolls of Paper with Vacuum Lifting Equipment	Allg. Pap. Rundsch., Aug 1990											
14099		drive;servo;resonance;vibration	01-Jul-15	5	Schmidt, Brian	Using intelligent servo drives to filter mechanical resonance, improve machine accuracy in printing, converting machinery	Converting Quarterly, qtr 3, 2015	4			magazine	AIMCAL	Bosch Rexoth					
3033	o	guide	13-Apr-03	5	Schmidt, Ronald	Web Guilde Selection & Application	CEMA Coating and Laminating Seminar, Chicago, April 15, 2003				shortcourse	CEMA	Maxcess					
3144	o	guide	26-Oct-03		Schmidt, Ronald	Web Guiding Sensor and Control Technology (Maxcess)	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003					AIMCAL	Maxcess					

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3249	o	tension;control;rebuild	24-Oct-04		Schmidt, Ronald	Innovative Tension Control Solution Leads to Increased Productivity in a Lamination Process	AIMCAL Fall Tech Conf, Charleston, October 24-27, 2004					AIMCAL	Maxcess					
2059		roller;balance;vibration	01-Jul-91		Schminke, K.H.	The Importance of Roll Balancing on High Speed Paper Machines	Papier, Jul 1991				magazine							
2732		caliper;thickness;measurement	28-Aug-00	12	Schnackertz, Theodore J. Sr.	On-Line Gauging as a Process Troubleshooting Tool	TAPPI Polymers, Laminations and Coatings Conf. Proc., pp 335-347, Chicago, Aug 28-31, 2000	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5151&DID=523191	The value of an on-line gauging system is well established when it comes to process control and economics (raw material savings, quality improvements, throughput increases, and scrap reduction).	conference	TAPPI	NDC					
2890	o	caliper;gage;measurement	22-Oct-01		Schnackertz, Theodore J. Sr.	Beta Gauge Measurement	AIMCAL Fall Tech Conf, Oct 22-24, 2001					AIMCAL	NDC					
2963		coat;basis_weight;measure;scan	09-Sep-02		Schnackertz, Theodore J. Sr.	On-Line Gaguging for Coating and Laminating	TAPPI PLACE Conf. Proc., Boston, Sept 9-12, 2002	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5090&DID=510951	benefits and economics of utilizing on-line gauging in a film/coating process. In addition we will discuss the applicable gauging sensor technologies	conference	TAPPI	NDC					

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3139	o	scan;gage;measure	26-Oct-03		Schnackertz, Theodore J. Sr.	On-Line Gauging for Coating and Laminating (NDC Infrared Engr)	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003					AIMCAL	NDC					
3230	o	gage;caliper;measurement	29-Aug-04		Schnackertz, Theodore J. Sr.	On-Line Gauging as a Process Troubleshooting Tool	TAPPI PLACE Conf, Indianapolis, August 29, 2004				conference	TAPPI	NDC					
3427	o	scanner;gage;caliper	18-Sep-06		Schnackertz, Theodore J. Sr.	On-Line Gauging as a Process Troubleshooting Tool	TAPPI PLACE Conf, Cincinnati, September 17-21, 2006	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=10001&DID=554816	However, on-line gauging may be underestimated when it comes to diagnostics. The purpose of this paper is to focus attention on these systems as an important source of real time diagnostic information	conference	TAPPI	NDC					
2060		heat;conduct;textile	01-Feb-92		Schneider, A.M. et al	Heat Transfer through Moist Fabrics	Textile Research J., Feb 1992				magazine	Textile Research J						
2061		automation;auto-sequence	27-Jan-81		Schneyer, H.W.	Raising Winder Productivity Through Automatic Roll Set Changes	CPPA Annual Mtg (Montreal) Preprints 67b, pp 223-230				conference	CPPA						
2062		automation;winder;productive;time cycle;	01-Oct-81	5	Schneyer, H.W.	Raising Winder Productivity Through Automatic Roll Set Changes	Pulp & Paper Canada, vol 82, no 10, pp 96-100				magazine	Pulp and Paper Canada						
2063	o	wind;roll_structure;defect;newsprint;crepe_wrinkle	16-Mar-87		Schonmeier, Herbert	Experience with Modern Single-Drum Winders for Newsprint	Winding Technology Conf. Proc., Swedish Newsprint Research Center (TFL), Stockholm, Mar 16-171986				conference	STFL	Beloit					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2064	o	winder;newsprint;crepe wrinkle;roll structure;hardness;duplex w	14-Oct-88	4	Schonmeier, Herbert	Modern Newsprint Machines Served by Automated Single Drum Winder	TAPPI Finishing and Converting Conf. Proc., Richmond, pp 35-38, Oct 2-6 1988				conference	TAPPI	Beloit					
5771		wind;two_drum;air_support;nip_relieve	02-Jan-97	4	Schonmeier, Herbert	A System for Relieving Nip Loads of Rewinding Rolls on Shaftless Two-Drum Winders	CPPA 79th Annual Meeting, pp A115-118, 1993	3			conference	CPPA	Beloit	RelieveNipLoadsTwoDrum	WindGeneralScan	doc and pdf	06-Nov-09	
2066	o	wind;adaptive control;dynamic	16-Mar-87	7	Schroder, D. and Hoger, W.	Substantial Improvements of the Performance of Axial Winders	Winding Technology Conf. Proc., Swedish Newsprint Research Center (TFL), Stockholm, Mar 16-171986				conference	STFL						
9864		winder	14-Jun-12		Schroeder, Michael	Centre-Surface Winding	AIMCAL Web Handling Conference, Prague, Jun 14-15, 2012	2			conference	AIMCAL	Black Clawson				27-Jul-12	
10066		roller;design	08-Jun-14		Schroeder, Michael	Web Guiding Roller Selection and Challenges	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014	3			conference	AIMCAL	Davis Standard					
2067	o	supercalender	24-Oct-93	22	Schuelke, T.L.	Supercalender: Improvements that Enhance Quality, Productivity and Safety	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 289-310, Oct 24-27 1993	2	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5578&DID=523500	many tools available today to help operators increase the amount of saleable paper coming off the supercalender. Updating equipment and/or procedures can translate into immediate improvement in profits	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2619	o	roller;air_entrain;reduction;patent	06-Jun-99	16	Schuler, D. and Welp, E.G. and Kopp, O.	Closed Solid State-Fluid Mechanical Model for Calculating the Transferable Torque on Wrapped Rolls	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC						
2068		material;property;fiber	01-May-90		Schulgasser, K. and Grunseit, Z	The Influence of Micro-Formation on the In-plane Elasic Behavior of Paper	J. of Materials Science, May 1990				magazine							
5491		material;modulus;shear;measurement	01-Jan-81	14	Schulgasser, Kalman	On the In-Plane Elastic Constants of Paper	Fibre Science and Technology, vol 15, pp 257-270, 1981	3			magazine	Fiber Science and Technology	Ben Gurion Univ	InplaneElasticConstants	MaterialScan	doc and pdf	30-Dec-09	
5492		material;poisson_ratio;measurement	01-Jan-83	11	Schulgasser, Kalman	The In-Plane Poisson Ratio of Paper	Fibre Science and Technology, vol 19, pp 297-309, 1983	2			magazine	Fiber Science and Technology	Ben Gurion Univ	InplanePoissonRatio	MaterialScan	doc and pdf	30-Dec-09	
2071		caliper;density;measure	01-Sep-91		Schultz-Eklund, O. et al	Method for the Local Determination of the Thickness and Density of Paper	TAPPI Paper Physics Conf. Proc., Sep 1991	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5691&DID=515947	A paper is placed on a coordinate-table with high precision, and moved in steps of 150 um so that the total measurement area amounts to 77 mm x 77 mm. The thickness is recorded	conference	TAPPI						
2072		sheet;staircut	01-Aug-67		Schulze, Peter	The Multi-ply effect (staircut): A Sheeting Problem	Tappi J., vol 54, no 8, pp 1305, Aug 1971				magazine	TAPPI						
2073		sheeter;;feeding;cutting;sheet;length;wrap angle;variation; mat	01-Aug-71	4	Schulze, Peter	The Multip-Ply Effect (Stair Cut): A Sheeting Problem.	Tappi J., vol 54, no 8, pp 1305-1308, Aug 1971				magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2074		wind;tension;cof	31-Aug-98		Schumann, Brian and Wooster, Jeffrey	The Effect of Film Winding Tension and Melt Temperature on COF and Other Properties of PE Blown Film	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Francisco, Aug 31-Sept 3, 1998	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5282&DID=509402	designed experiment has been conducted to determine the effects of sealant layer melt temperature and film winding tension on the coefficient of friction (COF) and other physical and optical properties	conference	TAPPI						
2075		calender;roller;heat	01-Aug-91		Schuwerk, W.	Conception and Application Limitations for Heated Rolls	Wochenbl. Papierfabr., vol 119, no 15, Aug 1991											
2076		paper;caliper;calender;control	01-Apr-90		Schuwerk, W. et al	Corretion of the Thickness Cross Profile of Paper Webs in Calenders	Papierfabr., Apr 1990											
3556	o	wind;cores;testing	06-May-08	1	Schwab, Andreas	Cores for Winding - Parameters and Measurements	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	Corenso					
3021	o	flotation_dryer	15-Apr-03	5	Schwartz, Rodney (Megtec)	Upgrade of Flotation Drying Systems	CMM Int'l, T4 Coating Session, Chicago, April 15, 2003											
2077		static;coating	17-Oct-82	6	Schweriner, H. Allen Sr.	Static Electricity	TAPPI Finishing and Converting Conf. Proc., 1982				conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2078	o	web;scan;inspection	15-Oct-95	8	Schwolow, E. and White, J.T. and Bettendorf, P.	Packaging Inspection of Fine Paper Products Utlizing Machine Vision	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 83-90, Oct 15-18, 1995	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5460&DID=521827	Machine Vision, criteria for selecting the system, design of the optics and lighting, inspection algorithms, operator interface, communications and data collection, hardware design, and acceptance test	conference	TAPPI						
2079		coating	01-May-96	13	Scriven, L.E. and Hanumanthu, Ram	Coating with Patterned Rolls and Rods	Tappi J., vol 79, no 5, pp 126-138, May 1996	5	http://www.tappi.org/s_tappi/secpublications.asp?CID=4753&DID=518464	Knurled and gravure rolls, and micro-gravure and wire-wound rods (Mayer rods) are widely used to apply thin coatings at relatively high speeds. The main advantage of patterned rolls and rods over smooth ones is that the metering function	magazine	TAPPI						
2080		air;permeability;test;measure	01-Nov-93	4	Scrivener, Thomas F.	The differential-Pressure Aire Pemermeability test for use in the Nonwovens, Filter and Paper Industries	Tappi J., vol 76, no 11, pp 221-224, Nov 1993	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5591&DID=523563	Differential Pressure Air Permeability Instrument and its associated uses. In order to give an appreciation of its usefulness to the user	magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5620		runnability;paper;web_break;shive;print;press;peformance	01-Jul-65	10	Sears, George R. and Tyler, Russell F. and Denzer, Carlton W.	Shives in Newsprint: The Role of Shives in Paper Web Breaks	Pulp & Paper Canada, pp T-351 - T-360, Jul 1965	4			magazine	Pulp and Paper Canada	IPC	ShivesNewsWebBreaks	Runnability Scan	doc and pdf	30-Dec-09	
2891	o	die;coating	22-Oct-01		Seckora, Jeffrey M.	Slot Die Coating Methods	AIMCAL Fall Tech Conf, Oct 22-24, 2001					AIMCAL						
2971	o	slot_die;curtain_coating	21-Oct-02		Seckora, Jeffrey M.	Comparison of Proximity Slot Die and Curtain Coating Applications	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL	Extrusion Dies					
2082		core;chuck;roller runout;slip;tension;web break	08-Oct-84	7	Secor, Arthur D.	Core Chuck Selection for Paper Mill Equipment	TAPPI Finishing and Converting Conf. Proc., 1984				conference	TAPPI						
2083		core;chuck	01-Mar-85	3	Secor, Arthur D.	Centering in on Core Chucks...Secor of Great Lakes Discusses	Paper Age, vol 11, no 3, pp 46-47, Mar 85				magazine	Paper Age						
2084		papermaking;roll;paper;pulp;winding;core;chuck;unwind;winder;to	29-Apr-88		Secor, Arthur D.	Core Chuck Selected for Paper Mill Equipment	CPPA Annual Mtg.				conference	CPPA						
2085		control;slitter;defect;operation;maintenance;roll structure	13-Apr-80	35	Seidal, Kenneth L.	Practical Approach to Winding Principles	TAPPI Finishing and Converting Short Course Notes, 1980				conference	TAPPI	Beloit					
5772		wind;two_drum;general;design;operation	17-Oct-82	17	Seidal, Kenneth L.	Practical Approach to Winding Principles	TAPPI Finishing and Converting Conf. Proc., 1982	2			conference	TAPPI	Beloit	PracticalWindingSeidel	WindGeneralScan	doc and pdf	06-Nov-09	maintenance
9793		model	10-Jun-12		Sellers, Michael	Computer Modeling in Today's Converting World	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Advance Systems, Inc					
14104		festoon;splice;roll_change;automation	01-Oct-15	4	Sellers, Michael	Fetoon splicing technology; an overlooked opportunity?	Converting Quarterly, qtr 3, 2015	3			magazine	AIMCAL	Mtorres Diseno Industriales					
3446		dryer;air_float	23-Oct-06	1	Sellers, Mike	Temperature or Air Flow: Which is More Beneficial	AIMCAL Fall Tech Conf Proc, Reno, October 22-25, 2006					AIMCAL	Advance					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2087		DC;brake;speed;regenerative;electric;drive;control;unwind	11-Jul-88	8	Sen, Paresh C. and MacDonald, Murray L.	Thyristorized DC Drives with Regenerative Braking and Speed Rev	IEEE Trans. on Industrial Electronics and Control Instrumentation											
5512		measure;ultrasonic;modulus;paper	01-Feb-85	5	Senko, E. and Thorpe, J.	On-line Ultrasonic Measurement of Sheet Modulus	Tappi J., vol 68, no 2, pp 95-99, Feb 1985	2			magazine	TAPPI	SUNY College	OnlineUltrasonicModulus	MeasurementScan	doc and pdf	30-Dec-09	
5669		wrinkle;md;model;measure	01-Mar-92	6	Seo, Y.B. and De Oliveira, R. Chaves and Mark, R.E.	Tension Buckling Behavior of Paper	J. of Pulp and Paper Science, vol 18, no 2, Mar 1992	3			magazine	J Pulp and Paper Science	Empire State Paper	TensionBucklingBehaviorPaper	SpreadWrinkleScan	doc and pdf	25-Dec-09	
5493		material;modulus;shear;poisson_ratio;paper;measurement	01-Nov-92	6	Seo, Y.B. and De Oliveira, R. Chaves and Mark, R.E.	An Optimization Approach for the Determination of In-Plane Elastic Constants of Paper	Tappi J., vol 75, no 11, pp 209-214, Nov 1992	3			magazine	TAPPI	International Paper	OptimizeElasticConstants	MaterialScan	doc and pdf	30-Dec-09	
2091		time cycle;auto-sequence;auto-slitter	06-Oct-85	9	Sepavich, David	Winder Automation How Much is Required	TAPPI Finishing and Converting Conf. Proc., 1985				conference	TAPPI	Beloit Lenox					
6045	o	tension;model;measure;model;rotogravure;printing_press	13-Jun-11	20	Seshadri Aravind and Pagilla, P. and Lynch, J.	Modeling and Analysis of Rotogravure Printing Presses	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15				conference	WHRC	WHRC, Armstrong World Industries					
9987		tension;model;measure;model;rotogravure;printing_press	01-Jan-13		Seshadri, Aravind and Pagilla, P. and Lynch, J.	Modeling Print Registration in Roll-to-roll Printing Presses	ASME J Dyanmic Systems Measurement and Control, vol 135, pp 031016, 2013				journal	ASME						
9990		tension;model;measure;model;rotogravure;printing_press	01-Jan-13		Seshadri, Aravind and Pagilla, PR	Modeling and Analysis of a Rotating Turret Winder in Roll-to-roll Manufacturing Systems	Proc American Control Conference, 2013				conference	ASME						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9991		tension;model;measure;model;rotogravure;printing_press	01-Jan-13		Seshadri, Aravind and Pagilla, PR	Interaction Analysis of Control Systems Employed in Roll-to-roll Printing	Proc American Control Conference, 2013				conference	ASME						
9963	o	control;registration;model	02-Jun-13	18	Seshadri, Aravind and Pagilla, Prabhakar R	Comparison of control strategies for roll-to-roll printing presses	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	3			conference	WHRC	WHRC					
9988		tension;model;measure;model;rotogravure;printing_press	01-Jan-13		Seshadri, Aravind and Raul, PR and Pagilla, P.	Analysis and Minimization of Interaction in Decentralized Control Systems with Application to Roll-to-roll Manufacturing	IEEE Transactions on Control Systems Technology				journal	IEEE						
2092		paper;web break;break;fracture;property;test	01-Jul-79	4	Seth, Rajinder S.	Measurement of Fracture Resistance of Paper	Tappi J., vol 62, no 7, pp 92-95, Jul 1979				magazine	TAPPI	PAPRICAN					
5621		runnability;paper;web_break;fracture;flaw	01-Jul-79	4	Seth, Rajinder S.	Measurements of Fracture Resistance of Paper	Tappi J., vol 62, no7, pp 92-95, Sep 1979	3			magazine	TAPPI	PAPRICAN	MeasureFractureResist	Runnability Scan	doc and pdf	30-Dec-09	
2093	c	runnability;fracture	01-Sep-79	2	Seth, Rajinder S.	On the Work of Fracture in Paper	Tappi J., vol 62, no 7, pp 105-106, Sep 1979				magazine	TAPPI	PAPRICAN					
2095		paper;property;test;compressive;test;failure;fiber;surface;defe	01-May-83	4	Seth, Rajinder S.	Intrinsic Edgewise Compressive Strength of Paper: A Comparison	Tappi J., vol 66, no 5, pp 97-100, May 1983				magazine	TAPPI	PAPRICAN					
5622		runnability;paper;web_break;fracture;flaw	01-Dec-74	9	Seth, Rajinder S. and Page, D.H.	Fracture Resistance of Paper	J of Materials Science, vol 9, no 11, pp 1745-1753, 1974	3			magazine	J Materials Science	PAPRICAN	FractureResistancePaper	Runnability Scan	doc and pdf	30-Dec-09	
5623		runnability;paper;web_break;fracture;flaw	01-Sep-75	6	Seth, Rajinder S. and Page, D.H.	Fracture Resistance: A Failure Criterion for Paper	Tappi J., vol 58, no 9, pp 112-117, Sep 1975	3			magazine	TAPPI	PAPRICAN	FractureResistanceFailure	Runnability Scan	doc and pdf	30-Dec-09	
2098		fracture;paper;property	01-Jan-75	8	Seth, Rajinder S. et al	Fracture Resistance: A Failure Criterion for Paper	International Paper Physics Conf. Proc., 1975, pp 101-108						PAPRICAN					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5624		runnability;paper;web_break;fracture;flaw	01-Feb-93	8	Seth, Rajinder S. et al	Plane Stress Fracture Toughness of Paper	Tappi J., vol 76, no 2, pp 109-115, Feb 1993	3			magazine	TAPPI	PAPRICAN	FractureToughnessPaper	Runnability Scan	doc and pdf	30-Dec-09	
2100		fracture;test;runnability	01-Oct-95	7	Seth, Rajinder S. et al	Measurement of in-plane Fracture Toughness of Paper	Tappi J., vol 78, no 10, pp 177-183, October 1995	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4852&DID=518371	The in-plane fracture toughness of tough, ductile sheets such as handsheets of softwood kraft pulps can be measured, independent of specimen size, by the "essential work of fracture" method	magazine	TAPPI	PAPRICAN					
2101			01-Mar-74		Setterholm, V.C.		Tappi J., vol 53, no 29, pp 30, 1973.				magazine	TAPPI						
2982	o	slit;material	21-Oct-02		Seyna, John J.	Impact of Substrate on Slitting Properties	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL	Kodak					
2102		fracture;test;strength;model	01-Apr-94	6	Shallhorn, P.M.	Fracture Resistance - Theory and Experiment	J. of Pulp and Paper Science, vol 20, no 4, April 1994				magazine	J Pulp and Paper Science						
2103		curl;deformation;drying;elasticity;moisture	01-Sep-88	5	Shands, Jay A. and Genco, Joseph M.	Cross-machine Variation of Paper Curl on a Twin-wire Machine	Tappi J., vol 71, no 9, pp 165-169, Sep 1988				magazine	TAPPI	Beloit					
2104	o	calender;roller;heated	02-Oct-94	7	Shank, G.L. and Whelan, D.J.	Overview of Heated Calender Roll Design	TAPPI Finishing and Converting Conf. Proc., Chicago, pp 157-162, October2-5, 1994	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5515&DID=522851	Temperature controlled calender rolls have become a very useful and important tool for the papermaker. A basic understanding of how these rolls are designed and work will help	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2105	o	time_cycle;productivity;calender	07-Oct-90	22	Shaver, Craig A.	Parameters Affecting the Supercalender's Ability to Keep Up with the Machine	TAPPI Finishing and Converting Conf. Proc., Lake Buena Vista FL, pp 167-188, Oct 7-10 1990	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5730&DID=515332	Components of the supercalender cycle time include log insertion time, splicing time, acceleration/deceleration rates, new spool insertion time, break associated time and filled roll change time. Data collected	conference	TAPPI	Beloit					
2106	o	calender;quality	24-Oct-93	9	Sheibley, J.M.	Achieving Quality Autonomy in a Production Dept.	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 3-10, Oct 24-27 1993	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5578&DID=523501	A coated freesheet mill has enhanced quality by changing their quality assurance organization. Disposition responsibility has been moved to lower levels and independent	conference	TAPPI						
5588		roller;calender;barring;vibration;roundness;nip		8	Shelly, Stuart and Zwart, Jake and Fournier, Andre	New Insights into Calender Barring Prevention	CPPA, 83rd Annual Mtg Proc	3			conference	CPPA	Sheet Dynamics, LSZ, Abititi	CalenderBarringCPPAShelley	RollerScan	doc and pdf	04-Dec-09	unusual
2109					Shelton, John J.	Guiding with a Center or End Pivoted Steering Roller	Fife Internal Memo				report		WHRC					
2110	c	roller;intertia;tension;model		10	Shelton, John J.	Effects of Web Inertia at Constant Velocity	OK. State Univ., WHRC,Internal Report				report	WHRC	WHRC					
5708		roller;web;inertia;tension		9	Shelton, John J.	Effects of Web Inertia at Constant Velocity	OK. State Univ., WHRC,Internal Report, around 1988	4			report	WHRC	WHRC	EffectsWebInertia	WebHandlingScan	doc and pdf	19-Dec-09	nearly unique

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2111		dynamic;	01-Jul-68	180	Shelton, John J.	Lateral Dynamics of a Moving Web	OK. State Univ., WHRC, Ph.D. Thesis				thesis	WHRC	WHRC					
2112			01-Jan-85		Shelton, John J.	Steady State Pre-entering Span Steering (Upstream Moment Transfer)	Fife Internal Memo, 1985				report		WHRC					
2113		drive;tension; model	01-Jan-86	5	Shelton, John J.	Dynamics of Web Tension Control with Veloicty or Torque Control	American Control Conf. Proc., Seattle, Jun 18-20 1987						WHRC					
5473		guide;steering; displacement; model;measur e	15-Feb-88	8	Shelton, John J.	Fundamentals of Lateral Web Behavior	WHRC Report	3			report	WHRC	WHRC	FundamentalLateralWeb	GuideScan	doc and pdf	25-Dec-09	
2114			27-Apr-88	5	Shelton, John J.	Dynamics of Web Tension Control with Velocity or Torque Control	OK. State Univ., WHRC, Internal Report				report	WHRC	WHRC					
2115			08-Jul-88		Shelton, John J.	Web Guiding Terminology and Concepts	Fife Internal Memo Engineering Bulletin E64-8, 1964)				report		WHRC					
2116		winding;roll structure;stres s	18-Aug-88	10	Shelton, John J.	Winding Perspective	OK. State Univ., WHRC, Internal Report				report	WHRC	WHRC					
2117	o	tension;draw; model	19-May-91	10	Shelton, John J.	Cause and Effects of Tension in a Draw-Controlled Web Process Line	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 210-219, May19-22 1991					WHRC	WHRC					
5709		roller;wrinkle;t ension;trough;r oll_defect;corr ugation	01-Aug-91	50	Shelton, John J.	Machine Direction Troughs in Web Spans and Corrugations in Wound Rolls	OK. State Univ., WHRC, Report, Aug 1991	5			report	WHRC	WHRC	MDtrough WebShelto n	WebHandlingScan	doc and pdf	22-Dec-09	important precedent
2118	o	wind;web;wrin kle;trough;mod el	01-Aug-91	48	Shelton, John J.	Machine Direction Troughs in Web Spans and Corrugations in Wound Rolls	OK. State Univ., WHRC,Internal Report				report	WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2119		guide;lateral;misalign;model	01-Nov-92		Shelton, John J.	An Initially Straight Moving Web with a Slack Edge: Steady State Behavior Caused by Roller Nonparallelism Greater than Critical	ASME Winter Annual Meeting, Anaheim CA, Nov 1992						WHRC					
2120	o	constrain;hygro-thermal;expansion;buckle;wrinkle;model	06-Jun-93	18	Shelton, John J.	Buckling of Webs from Lateral Compressive Forces	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC	WHRC					
2121		tension;profile;model	08-Nov-93		Shelton, John J.	An Initially Straight Moving Web with a Slack Edge	ASME Winter Annual Mtg., Anaheim, Nov 8-13 1992						WHRC					
2122	o	roller;deflection;critical_speed	18-Jun-95	16	Shelton, John J.	Deflection and Critical Velocity of Rollers	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC	WHRC					
2108	o	camber	01-Jun-97		Shelton, John J.	Effects of Web Camber on Handling	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC	WHRC					
6098		tension;measure;roller	01-Jul-97		Shelton, John J.	Sensing of Web Tension by Means of Roller Reaction Forces	WHRC Project 9192-1				report	WHRC	WHRC					
2580	o	dancer;load_cell;tension;dynamic;model	06-Jun-99	18	Shelton, John J.	Limitations to Sensing of Web Tension by Means of Roller Reaction Forces	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2606	o	tension;accumulator;model	06-Jun-99	18	Shelton, John J.	Dynamics of Web Accumulator	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC	WHRC					
2841	o	lateral;guide;model	11-Jun-01	10	Shelton, John J.	A Simplified Model for Lateral Behavior of Short Web Spans	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC	WHRC					
3065	o	guide;design;model	01-Jun-03	8	Shelton, John J.	Installation and Performance of Classical Web Guides	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC	WHRC					
3292	o	roller;misalgin	05-Jun-05	10	Shelton, John J.	Interaction Between Two Web Spans Because f a Misaligned Downstgream Roller	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC	WHRC					
3498	o	web_handling	10-Jun-07	8	Shelton, John J.	Applying Hundreds of Years of Scientific and Engineering Knowledge in 50 Years of Time	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3711	o	accumulator, tension	07-Jun-09	20	Shelton, John J.	Improvement of Control of a Web Accumulator	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC	WHRC					
9930		guiding;lateral; dynamics;bending	01-Jan-13	100	Shelton, John J.	BEHAVIOR AND CONTROL OF A MOVING WEB	unpublished book	10		the Shelton Book on guiding, unfinished, unpublished	book	Shelton, John J	Self	BookShelton	BookShelton	pdf		
2124		guide;static;dynamic;guide;tracking;lateral; displacement; contro	01-Sep-71	6	Shelton, John J. and Reid, Karl N.	Lateral Dynamics of an Idealized Moving Web	J. of Dynamic Systems Measurement and Control,Transactions of the ASME				magazine							
5474		guide;steering; model;measure	01-Sep-71	8	Shelton, John J. and Reid, Karl N.	Lateral Dynamics of a Real Moving Web	Transactions of the ASME, pp 180-186, Sep 1971	3			magazine	Fife	Fife	LateralDynamicsReal Web	GuideScan	doc and pdf	25-Dec-09	
2125		static	31-Aug-98		Shelton, Scott	Controlling Electrostatic Charges on Film Webs	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Francisco, Aug 31-Sept 3, 1998				conference	TAPPI	Simco					
3345	o	static;ionizer	26-Sep-05		Shelton, Scott	Benefits of New Technology Ionizers for Web Handling	TAPPI PLACE Conf, Las Vegas, September 26, 2005	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5026&DID=526667	All ionizers require periodic cleaning and performance verification, but this is rarely done due to lack of understanding of the importance and little knowledge of the ionizers and how to evaluate and service them	conference	TAPPI	Simco					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2126	o	trim	07-Oct-90	6	Sherrod, R.S.	Can the Pneumatic Trim Systems of Today Meet the Needs of New High Speed Winders?	TAPPI Finishing and Converting Conf. Proc., Lake Buena Vista FL, pp 239-244, Oct 7-10 1990	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5730&DID=515346	critical factors: (a) The type and method of trim capture, (b) The type of system design to be employed, and (c) The type of product/ air separator used at the material discharge end of the system	conference	TAPPI						
2127		trim	01-May-91		Sherrod, R.S.	Today's Fast Winders Tax Limitations for Traditional Trim Handling Systems	Pulp and Paper, May 1991				magazine	Pulp and Paper						
2128		process;simulation	01-Jan-83		Shewchuk, Cecil F.	The Reconciliation of Process Simulation and Actual Operation	TAPPI Annual Mtg, pp 9-16, 1983					TAPPI						
2829	o	tension;drive;control;model	11-Jun-01	10	Shin, K. and Jang, J. and Kim, K.	Strip Tension Control Considering the Thermal Strain in Multi-Span Systems with Temperature Change	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC	WHRC					
2129	o	tension;control	01-Jun-97		Shin, K.H. and Kim, K.T. and Cheon, S.M.	Non-Linear Tension Control in a Winding Process by using the Contact Roll	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC	WHRC					
2130		tension;drive;model;computer	01-Dec-86	63	Shin, Kee-Hyun	Tension Control in a Moving Web	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2131	o	tension;drive; model;comput er	01-May-91	238	Shin, Kee-Hyun	Distributed Control of Tension n Multi-Span Web Transport Systems	OK. State Univ., WHRC, Ph.D. Thesis				thesis	WHRC	WHRC					
2132	o	tension;drive;c aliper;model	18-Jun-95	16	Shin, Kee-Hyun	Real-Time Tension Control in a Multi-Stand Rolling System	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC	WHRC					
2687	o	tension;drive;c ontrol;book	01-Jan-00	116	Shin, Kee-Hyun	Tension Control	TAPPI PRESS, 2000	10			Book	TAPPI	WHRC	TensionCo ntrolShin	BookScan	doc and pdf	20-Jan-11	
2133	o	tension;drive; multispan	18-Jun-95	12	Shin, Kee-Hyun and Reid, Karl N. and Kwon, S.O.	Non-Interacting Tension Control in a Multi-Sjpan Web Transport System	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC	WHRC					
2134		wrinkle;model	01-Feb-91		Shinohara, A. et al	Geometry and Mechanics of the Buckling Wrinkle in Fabrics	Textile Research J., Feb 1991				magazine	Textile Research J						
2135		roll-handling	22-Oct-79	14	Shrader, R.E., and Jasper, Ronald J.	Vacuum Handling of Paper Rolls	TAPPI Finishing and Converting Conf. Proc., 1979				conference	TAPPI						
2136	o	calender	06-Oct-96	16	Shultz, B.J.	The Effect of Calender and Formulation Variables on Optical Properties in On-Line Soft Nip Calendering	TAPPI Finishing and Converting Conf. Proc., Bal Harbor, FL, pp 147-162, Oct 6-9, 1996				conference	TAPPI						
2137		density;diamet er;dimension;g ravure paper;math;qu ality control;r	01-Jun-70	2	Shvetsov, Ya N.	Importance of Winding Density of Paper Rolls	Bumazh. Prom., no 6, pp 21-2, Jun 1970 [Russian]											
2745	o	flammability;fir e;safety	16-Oct-00		Sibrava, Joe	Flammability Reduction	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3491	o	winder;rider_roll;vibration;damper	10-Jun-07	8	Sieber, B.	Mechatronic Damping for Contact Rolls is Film Winders	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC	Bruckner Mach					
9973			01-Jan-87		Sievers, LA	Modeling and Control of Web ConveyanceSystems	PhD Thesis, Rensselaer Polytechnic Institute				thesis	Rensselaer	self					
2138	o	label	06-Oct-96	6	Siftar, C.W.	Adding Value by Using Pressure Sensitive Labeling Technology	TAPPI Finishing and Converting Conf. Proc., Bal Harbor, FL, pp 181-186, Oct 6-9, 1996	2	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5386&DID=521549	several factors and potential benefits to consider when converting to or installing new pressure-sensitive labeling equipment	conference	TAPPI						
3311	o	winder;drum;nip;groove	05-Jun-05	10	Simbierowicz and Vanninen, R.	Roll Design Effect on Nip Pressure	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC						
2139		calender;soft	01-Apr-91		Simons, N.	Is Soft Calendering Creating New Possibilities	Newspaper Technology, Apr 1991											
2586		friction;measure	01-Jun-97		Singleton, M.C. and Russell, J.A.	Factors influencing paper friction: is the third test best	Appita J., vol 50, no 6, June 1997				magazine	APPITA						
2140		roll structure;control	08-May-83		Sjoberg, Kjell R.	ASEA Rolltrimmer - a System to Improve Paper Roll Quality	ASEA internal report. Focus 83 Twind-wire & New Former Design											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2141		roll structure;control	15-Sep-83	4	Sjoberg, Kjell R.	Rolltrimmer System Improves Control and Paper Quality on Two Drum Winders	Paper Trade J., vol 167, no16, pp 42-45, Sep 15, 1983				magazine	Paper Trade J						
3220	o	cast;film;die;lip;temperature;variation	29-Aug-04		Škabrahová, P., Švábík, J., Vlèek, J.	A Role of an Uneven Temperature Distribution at the Flat Die Inlet on the Die Performance	TAPPI PLACE Conf, Indianapolis, August 29, 2004	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5053&DID=525850	study uses a 3D FEM analysis to investigate an effect of an uneven temperature distribution at the die inlet on the final distribution. The temperature inhomogenity	conference	TAPPI	Extrusion Dies					
9848		scan;weight	22-Oct-12		Skarke, Udo	Laser Developments and Concepts in Optical Web Coating Inspection Technologies	AIMCAL Web Coating Conference, Myrtle Beach, Oct 22-24, 2012				conference	AIMCAL	Erhardt-Leimer					
2142	o	wound_roll;clamp;out-of-round	02-Oct-94	7	Skinner, Jeffrey R.	Newly Designed Automatic Slip Controlled Paper Roll Clamp	TAPPI Finishing and Converting Conf. Proc., Chicago, pp 37-42, October 2-5, 1994	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5515&DID=522854	new type of paper roll clamp designed to reduce handling related product damage by automatic adjustment of clamping force is presented. Clamp operational theory and design	conference	TAPPI						

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2143		wound_roll;clamp;out-of-round	01-Apr-95	4	Skinner, Jeffrey R.	Automatic Slip Controlled Paper Roll Clamp	Tappi J., vol 78, no 4, pp 195-198, April 1995	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4743&DID=518621	new type of paper roll clamp designed to reduce handling related product damage by automatic adjustment of clamping force is presented. Clamp operational theory and design	magazine	TAPPI						
2144		paper;property;test	01-Jan-83	9	Skowronski, J. and Robertson, A.A.	A Phenomenological Study of the Tensile Deformation Properties	International Paper Physics Conference, 1983, pp 95-103											
2145		paper;property	01-Jan-85		Skowronski, J. et al	A Phenomenological Study of the Tensile Deformation Properties	J. of Pulp and Paper Science, p 21-28, Jan 1985				magazine	J Pulp & Paper Science						
3447		test;peel;psa	23-Oct-06	1	Smith, Colleen	Improving reproducibility of pressure sensitive test methods	AIMCAL Fall Tech Conf Proc, Reno, October 22-25, 2006					AIMCAL	National Starch					
2146			01-Mar-90		Smith, D.	Paper Mishandling Technical Report	Paper Europe, Mar 1990											
2147		sensor	01-Mar-90		Smith, D.W.P.	The Changing Requirements for On-Line Sensor Data	Pulp & Paper Canada, Mar 1990				magazine	Pulp and Paper Canada						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2667		print;troubleshoot	01-Nov-99	3	Smith, David A	Five Questions Help Diagnose Printability Problems	Tappi J, vol 82, no 11, pp 64-66, November 1999	3	http://www.tappi.org/s_tappi/sec publications.asp?CID=4758&DID=518111	Paper suppliers must often respond to printing problems that may or may not relate to paper. Answers to five key questions complemented by diagnostic test methods can provide a correct diagnosis	magazine	TAPPI						
2148		nip;contact;stress	01-Jan-51	10	Smith, J.O. and Liu, Chang Keng	Stresses Due to Tangential and Normal Loads on an Elastic Solid	J. of Applied Mechanics, Transactions of the ASME, vol 18				magazine	J Applied Mechanics						
2149	o		21-Sep-97	2	Smith, Ken	The Effects of Particle Contamination in the Printing and Folio Size Sheets	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 35-36, September 21-24, 1997	1			conference	TAPPI						
2150		automation;CD;paper;profile;control;	01-Feb-85	5	Smith, Kenneth E.	Cross-Direction Control is Still Top Process Automation Trend	Pulp & Paper, pp 72-76, Feb 1985				magazine	Pulp and Paper						
2151	o	wind;nip;deflection;j-linedesign	24-Oct-93	16	Smith, Phil and Bagnato, Luigi	The Relationship of the Paper Machine Reel to the Winding Process	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 123-138, Oct 24-27 1993	2	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=5578&DID=523481	show the importance of winding quality reels of paper with the same tools that are used on today's modern finish winders	conference	TAPPI	Beloit					
6039		two-drum;winder;rider_roll;nip;control	01-Nov-88	4	Smith, R Duane	Microprocessor Control of Rider Roll Loading	Paper Age, Nov 1988,	3			article	PaperAge	Black Clawson	FlextronicRiderRollSmithPaperAge	WindGenScan	pdf	01-Apr-11	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5958	o	defect;wind;troubleshooting;tension	18-May-10	1	Smith, R Duane	Applied Web Handling and Winding Principles for Troubleshooting Web and Roll Defects	Applied Web Handling Conf, AIMCAL AWEB, Rochester, May 17-20	3	http://www.aimcal.org/association/aweb10/abstracts.asp?RECORD_KEY=filename&filename=smith	principles in determining the proper amount of web tension to transmit webs through a process, the proper web paths and spreading applications to help prevent wrinkling and then the principles used for proper winding to help prevent roll defects	conference	AIMCAL	Black Clawson	AWEB/AWEB10	AWEB2010	pdf	04-Jun-10	
9889		roller;idler;design	01-Apr-12	4	Smith, R Duane	Guidelines for selecting proper idler rollers	Converting Quarterly, qtr 2, 2012	2			magazine	AIMCAL	Black-Clawson					
9865		wiinder	14-Jun-12		Smith, R Duane	Guidelines for Selecting the Best Winding Process	AIMCAL Web Handling Conference, Prague, Jun 14-15, 2012	2			conference	AIMCAL	Black Clawson				27-Jul-12	
9853		roller	14-Jun-12		Smith, R Duane	Guidelines for Idler Rollers for Web Handling	AIMCAL Web Handling Conference, Prague, Jun 14-15, 2012	2		require the use of idler rolls, pull rolls, spreaders and edge guides in order to provide control of a web as it is conveyed. Without the correct size and application of these devices	conference	AIMCAL	Black Clawson				27-Jul-12	
9908		roller;design;application	01-Aug-12	5	Smith, R Duane	Guidelines for rolls used in web handling	Converting Quarterly, qtr 2, 2012	3			magazine	AIMCAL	Black Clawson					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9881		wiinder	22-Oct-12		Smith, R Duane	Guidelines for Selecting the Best Winding Process	AIMCAL Web Handling Conference, Myrtle Beach, Oct 22-23, 2012	2			conference	AIMCAL	Black Clawson				27-Jul-12	
9875		roller	22-Oct-12		Smith, R Duane	Guidelines for Idler Rollers for Web Handling	AIMCAL Web Handling Conference, Myrtle Beach, Oct 22-23, 2012	2		require the use of idler rolls, pull rolls, spreaders and edge guides in order to provide control of a web as it is conveyed. Without the correct size and application of these devices	conference	AIMCAL	Black Clawson				27-Jul-12	
10007		turret;wind;splice;transfer	01-Dec-13	4	Smith, R Duane	Continuous splicing techniques for turret unwinds	Converting Quarterly, qtr 4, 2013	4			magazine	AIMCAL	self					
10053		wind;design	08-Jun-14		Smith, R Duane	Guide to Selecting the Best Winding Process for Your Products	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014				conference	AIMCAL	Davis-Standard					
10047		wind;productivity;turret;splice	08-Jun-14		Smith, R Duane	Meeting Today's Productivity Requirements for your Unwinding and Splicing Operation	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014				conference	AIMCAL	Davis-Standard					
10078		wind;tight;TNT;nip;tension	01-Sep-14	4	Smith, R Duane	Developing roll hardness on center and center-surface type winders	Converting Quarterly, qtr 3 2014	3			magazine	AIMCAL	Black Clawson					
10087		winding	20-Oct-14		Smith, R Duane	Developing Roll Hardness on Center and Center-Surface Winders	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014	3			conference	AIMCAL	Black Clawson					
14172		roller;air_entrain;groovin;tension;spread;wrinkle;unwind	01-Jul-16	5	Smith, R Duane	Challenges of handling thinner, wider webs at faster speeds	Converting Quarterly, qtr 3, 2016	3			magazine	AIMCAL	Davis-Standard					

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2152		shaftless;rebuild	01-Sep-77	3	Smith, R. Duane	Converting to Shaftless Winding Boosts Efficiency at Slitter Winder	Pulp & Paper, vol 51, no 10, pp 74-76, Sep 1977				magazine	Pulp and Paper	Black Clawson					
2153		splice;control	01-Oct-87	5	Smith, R. Duane	Continuous Splicing Techniques for Turret Unwinds	TAPPI Finishing and Converting Conf. Proc., 1987				conference	TAPPI	Black Clawson					
2154	o	splice;control	01-Nov-87	5	Smith, R. Duane	Continuous Splicing Techniques	Paper, Film & Foil Converter, vol 61, no 11, Nov 1987				magazine	Paper Film Foil Converter	Black Clawson					
5534		splice;automation;flying_splice;paster;cutoff_knife	01-Nov-87	6	Smith, R. Duane	Continuous Splicing Techniques	Paper, Film & Foil Converter, vol 61, no 11, Nov 1987	4			magazine	Paper Film Foil Converter	Black Clawson	Continuous SplicingSmith	MiscScan	doc and pdf	26-Dec-09	
2155	o	winder;rider roller;computer;control	14-Oct-88	4	Smith, R. Duane	Microprocessor Control of Rider Roll Loading for New Existing	TAPPI Finishing and Converting Conf. Proc., Richmond, pp 27-30, Oct 2-6 1988				conference	TAPPI	Black Clawson					
2156		wind	01-Apr-91		Smith, R. Duane	Consistently Winding Good Rolls Provides Challenge	Paper, Film & Foil Converter, vol 65, no 4, Apr 1991				magazine	Paper Film Foil Converter	Black Clawson					
2158	o	roll;web;defect;terminology;troubleshoot	24-Oct-93	12	Smith, R. Duane	Roll and Web Defect Terminology	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 219-240, Oct 24-27 1993	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5578&DID=515212	Roll and Web Defect Terminology" was compiled by a Special Task Force under the Winding Committee of the TAPPI Finishing and Converting Division	conference	TAPPI	Black Clawson					
2159	o	roll;web;defect;terminology;troubleshoot;book	01-Jun-95	254	Smith, R. Duane	Roll and Web Defect Terminology, 1st ed	TAPPI PRESS, 0101R234, 1993	10			Book	TAPPI	Black Clawson					
5773		wind;two_drum;general;design;operation	07-Oct-95	26	Smith, R. Duane	The Art of Winding Good Rolls	TAPPI Finishing and Converting Conf. Proc., Houston, pp 163-172, Oct 6-10 1991	3			conference	TAPPI	Black Clawson	ArtWindingGoodRolls	WindGeneralScan	doc and pdf	06-Nov-09	legacy

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2160		unwind;shaft;chuck;guiding;tension_control;design	01-May-98	3	Smith, R. Duane	Slitting/Rewinding Success Starts with the Unwind	Paper Film Foil Converter, vol 72, no 5, pp 66-68, May 1998				magazine	Paper Film Foil Converter	Black Clawson					
2856		wind;application	01-Aug-01	6	Smith, R. Duane	Slitter Savvy: The Art of Winding Good Rolls	Paper, Film & Foil Converter, vol 75, no 8, pp 46-53, August 2001	2	http://pffc-online.com/mag/paper_slitter_savvy_art/	What is a good roll? A slitter/winder operator will tell you that a good roll of paper is one that has the following characteristics	magazine	Paper Film Foil Converter	Black Clawson					
2872		laminate;wind;problem	26-Aug-01		Smith, R. Duane	Lamination and Winding Problems on a flexible Packaging Line	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Diego, Aug 26-30, 2001				conference	TAPPI	Black Clawson					
2871		web_handling;winding	26-Aug-01		Smith, R. Duane	Challenges of Web Handling and Winding	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Diego, Aug 26-30, 2001				conference	TAPPI	Black Clawson					
2917	o	winding;tutorial	02-Dec-01	10	Smith, R. Duane	The Art of Winding Good Rolls	TAPPI Engineering and Finishing and Converting Conf. Proc., San Antonio, December 2-6, 2001				conference	TAPPI	Black Clawson					
2916	o	web_handling;tutorial	02-Dec-01	10	Smith, R. Duane	Challenges of Web Handling	TAPPI Engineering and Finishing and Converting Conf. Proc., San Antonio, December 2-6, 2001				conference	TAPPI	Black Clawson					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5774		wind;unwind;design	02-Oct-02	12	Smith, R. Duane	Practical Applications of Unwind Systems for Converting Slitter Rewinders	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 113-124, October 4-8, 1998	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5255&DID=509145	rugged-duty, shaftless, floor pickup is often more suitable for maximum operation speed and roll-changing efficiency. The shaft selec-tion, chucking system, type of chucks, braking system, tension control, web-squaring, side-shifting, and edge-guid-ing	conference	TAPPI	Black Clawson	UnwindRewindSmith1	WindGeneralScan	doc and pdf	06-Nov-09	legacy
5775		wind;unwind;design	02-Oct-02	7	Smith, R. Duane	Practical Applications of Unwind Systems for Converting Slitter Rewinders	Tappi J., vol 81, no 10, pp 207-213, October 1998	3	http://www.tappi.org/s_tappi/secpublications.asp?CID=4767&DID=518881	rugged-duty, shaftless, floor pickup is often more suitable for maximum operation speed and roll-changing efficiency. The shaft selec-tion, chucking system, type of chucks, braking system, tension control, web-squaring, side-shifting, and edge-guid-ing	magazine	TAPPI	Black Clawson	UnwindRewindSmith2	WindGeneralScan	doc and pdf	06-Nov-09	legacy

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3397	o	film;winder;design	07-May-06	1	Smith, R. Duane	Challenges of winding flexible packaging film	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Black Clawson					
3532	o	winding	16-Sep-07		Smith, R. Duane	Challenges in Winding Flexible Packaging Films	TAPPI PLACE Conf, Proc., St Louis, Sept 16-19, 2007	3	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=11167&DID=558347	tension for various types of films and the principles of nip and gap winding. Then the basic types of center, surface and combination center/surface winders will be compared	conference	TAPPI	Black Clawson					
3535	o	roll;web;defect;terminology;troubleshoot;book	02-Jan-08	428	Smith, R. Duane	Roll and Web Defect Terminology, 2nd edition	TAPPI PRESS, 2008	20	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=189&DID=554943	224 defects has concise information which provides:	Book	TAPPI	Black Clawson					
6134		tension;design;guideline	01-Sep-11	4	Smith, R. Duane	Web-tension guidelines for polymer films, papers and paperboard webs	Converting Quarterly, qtr 3, 2011	3			magazine	AIMCAL	Black Clawson					
9778		tension;design;guideline	01-Jan-12	7	Smith, R. Duane	Guidelines for Web Conveyance and Winding Tensions for Polymer Films, Papers and Paperboard Webs	AIMCAL	3				AIMCAL	Black Clawson	TensionGuidelineBC	RollerScan	pdf	21-Nov-11	
9777		spreader;pull;roller;design;deflection;bearing	01-Jan-12	13	Smith, R. Duane	Guidelines for Rolls Used in Web Handling	AIMCAL	3				AIMCAL	Black Clawson	WebRollerGuidelineBC	RollerScan	pdf	21-Nov-11	
9776		idler;roller;design;deflection;bearing	01-Jan-12	6	Smith, R. Duane	Guidelines for Idler Roller Selection	AIMCAL	3				AIMCAL	Black Clawson	IdlerRollerDesignGuideBC	RollerScan	pdf	21-Nov-11	
9938		winder;application	01-May-13	4	Smith, R. Duane	How to select the best winding process for the product application	Converting Quarterly, qtr 2, 2013	2			magazine	AIMCAL	Black Clawson					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
10041		winder;shaft;delfection;critical_speed;vibration;stretch_film	01-May-14	5	Smith, R. Duane	Finding therightwinder forstretch film operations	Packaging Films, vol 4, no 2, pp 16-20, 2014	4			magazine	Packaging Films	Black Clawson					
2163		winder;automation;time cycle;productivity;	11-Oct-81	4	Smith, R. Duane and Deeg, Rudi F.	How to Determine Speed and Degree of Automation for a Winder	TAPPI Finishing and Converting Conf. Proc., 1981				conference	TAPPI	Black Clawson					
2164		regenerative;brake;unwind;drive;energy;cost	30-May-82	5	Smith, R. Duane and Meihofer, R.O.	Cost Justification of Regenerative Tension Control on Slitter	Paper Trade J., vol 166, no10, pp 48-52, May 30 1982				magazine	Paper Trade J	Black Clawson					
2165		friction;brake	17-Oct-82	7	Smith, R. Duane and Meihofer, R.O.	Cost Justification of Regenerative Tension Control Systems	TAPPI Finishing and Converting Conf. Proc., 1982				conference	TAPPI	Black Clawson					
3112		tension;print;register;vibration	01-Jan-74		Smith, R.E.	Approximate Analysis of Oscillatory tension effects on register error	TAGA Proc, vol 60, 1974											
2657	o	winder;operator;training	03-Oct-99	4	Smith, Robin	Winder Optimization through Training	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 215-218, October 3-7, 1999				conference	TAPPI						
2166	c	newsprint;runnability;defect;shive	09-Nov-78	12	Snider, Edward H.	Major Newsprint Factors That Affect Pressroom Runnability	CPPA/ANPA Newsprint Runnability Printability Sem (Chicago), pp 21-30, Nov 9-10 1978				conference	CPPA	CIP Newsprint					
5625		runnability;paper;web_break;crepe_wrinkle;printing_press;winding	01-Aug-79	6	Snider, Edward H.	Why Does the Web Ever Break?	Pulp & Paper Canada, vol 80, no 8, pp 63-69, Aug 1979	2			magazine	Pulp and Paper Magazine Canada	CIP Newsprint	WhyWebBreak	Runnability Scan	doc and pdf	30-Dec-09	
2168			01-Jan-64		Snyder, Harvey et al	Web Guiding Means	U.S. Patent #3,156,396 (1964)				patent							
2169		web;flutter;vibration;air	01-May-84	3	Soininen, M.		Pulp & Paper Canada, vol 85, no 5, pp T117-T119				magazine	Pulp and Paper Canada						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2170		dry	01-Jan-91		Soininen, M. and Akademi, A.	Modelling of Web Drying	Helsinki Symposium on Alternate, Update 9124											
2171		flutter	01-May-84		Soininen, Mauri	The Physics of Sheet Flutter in a Paper Drying Machine	Pulp and Paper Canada, vol 85, no 5, 1984				magazine	Pulp and Paper Canada						
2172		roller;composite	01-Oct-89		Sonada, J.	The Merit of Introducing Composite Roll	Japan Paper Tech., Oct 1989				magazine							
2173		nip;model	01-Jan-81	6	Soong, Tsai-Chen	The Steady Rolling Contact of Two Elastic Layer Bonded Cylinders with a Sheet in the Nip	J. of Applied Mechanics, vol 48, pp 889-894, 1981				magazine	J Applied Mechanics						
2174		guide;endless loop;drift;edge guide;steering;cylinder;conical;t	01-Dec-79	6	Soong, Tsai-Chen, and Li, Chun	An Elastic Analysis of Multi-roll Endless Web Systems	J. of Dynamic Systems Measurement and Control,Transactions of the ASME				magazine							
2175		calender;tissue	01-Jan-90		Sorenson, Mark A.	Fundamentals of Tissue Calendering	TAPPI Tissue Seminar				shortcourse	TAPPI	Beloit					
2176		calender;tissue	01-Apr-91		Sorenson, Mark A.	Fundamentals of Tissue Calendering	TAPPI Tissue Runnability Seminar, Apr 1991				shortcourse	TAPPI	Beloit					
2177	c	calender;tissue	01-Jan-92	3	Sorenson, Mark A.	Fundamentals of Tissue Calendering	TAPPI Tissue Runnability Seminar, 1992				shortcourse	TAPPI	Beloit					
2178	o	calendering;tissue	26-May-96	5	Sorenson, Mark A.	Tissue Calendering Fundamentals and Practical Aspects	TAPPI Tissue Runnability Shortcourse, Perdido Beach, AL, May 21-23, 1996				shortcourse	TAPPI	Beloit					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5916		calender;roll	01-Oct-98		Sorenson, Mark A.	Future of Calender Technology	TAPPI 1998 Finishing and Converting Conference Proceedings	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5255&DID=509155	increases the capital expenditure and energy consumption of soft calenders, using the traditional single nip design, to such an extent, that their commercial viability is impaired in comparison to multi-roll systems or supercalenders	shortcourse	TAPPI	Beloit					
5915		calender;roll	01-Oct-11		Sorenson, Mark A.	Calendering Tutorial	TAPPI 2001 Engineering / Finishing & Converting Conference Proceedings	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5098&DID=524965	Calendering Fundamentals - Tony Lyons Different Calender Types and Process Application Areas - Mikko Tani Understanding Calender Equipment and, Applications - Mark Sorenson Maintenance of Calendering Systems - Mark Sorenson	shortcourse	TAPPI	Beloit					
2179			01-Apr-86	6	Sorsen, Spencer L.	Basic Techniques for Controlling Web Position	Automation, pp 105-110, Apr 1966											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2180	o	film;slip;friction;measure	08-Sep-96	10	Soutar, Alister M.	The Fugitive: Slip	TAPPI Polymers, Laminations and Coatings Conf. Proc., pp 119-128, Boston, Sept 8-12, 1996	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5426&DID=521181	Treatment levels for printing or laminating and C.O.F. required for packaging operations are two common concerns. Coextrusions add to the complexity of predicting slip migration as slip	conference	TAPPI						
2181	o	tension;drive;design	08-Sep-96	17	Souza, Michael J.	Web Tension Control Circuitry: Selection of Controller and Motor Technology for Continuous Web Applications	TAPPI Polymers, Laminations and Coatings Conf. Proc., pp 485-500, Boston, Sept 8-12, 1996	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5426&DID=521206	various types of circuitry used in the past thirty years for this application will be examined. With this background information, a detailed discussion of the various controller and motor choices available historically through today	conference	TAPPI						
2182		drives	04-Oct-94	18	Spalding, Michael	Specifying Drives and Controls	AIMCAL 1994 Fall Tech. Conf. Proc., Atlanta, pp 69-86, Oct 4-5, 1994					AIMCAL						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2183	o	material_handling	06-Oct-96	10	Sparf, H.	Automatic Guided Vehicle Systems Increase Utilization and Productivity	TAPPI Finishing and Converting Conf. Proc., Bal Harbor, FL, pp 85-94, Oct 6-9, 1996	3	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5386&DID=521556	An AGV system can provide you with exceptional control over time management, waste reduction, on-time production, and safety hazards. The affordability of such automation will also be covered	conference	TAPPI						
3013		static	01-Mar-03	3	Spaulding, Mark	Productivity's in the bag	Converting Magazine vol 21, no 3, pp 78-82, March 2003	3	http://www.convertingmagazine.com/article/310108-Productivity_s_in_the_bag.php	By taking control of static charges, produce-bag converter Emerald Packaging ends customer rejects, nearly doubles throughput	magazine	Converting Magazine	Converting Magazine					
2184	o	qc	24-Oct-93	8	Spaulding, W.F.	Using Supplier Quality Assurance to Objectively Measure Suppler Performance	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 151-158, Oct 24-27 1993	3	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5578&DID=523482	Champion International's Deferiet NY paper mill. This article gives an overview of Deferiet's Supplier Quality Assurance process with emphasis on the Raw Material Quality Assurance process	conference	TAPPI	Converting Magazine					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2185	o	roller;draw;tension;traction;design;model	06-Jun-93	10	Speilbauer, Thomas M. and Walker, Timothy J.	Theory and Application of Draw Control for Elastic Webs with Nipped Pull Rollers	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC						
2186		moisture;basis_weight;sensor;control	01-May-68		Spitz, David A.	Theoretical Considerations in Continuous Control of Moisture from a Scanning Moisture Gage	Tappi J., vol 51, no 5, pp 209, May 1968				magazine	TAPPI	Industrial Nucleonics					
5840		wind;stress;model;3d	01-Jun-69	3	Spitz, David A.	Effect of Cross Direction Caliper Variations in Winding	Tappi J., vol 52, no 6, pp 1168-1170, Jun 1969	3			magazine	TAPPI	Industrial Nucleonics	EffectCDcaliperVariation	WindModel Scan	doc and pdf	28-Nov-09	
2188		caliper;basis_weight;sensor;control	01-Jan-89		Spitz, David A.	Control of Variations in a Moving Web with a Scanning Gauge	Tappi J., vol 72, no 1, Jan 1989				magazine	TAPPI	Industrial Nucleonics					
2189		wind;train	01-Jan-92		Springmier, S.	Winder Training is a Key Link	PIMA, Jan 1992				magazine	PIMA						
3738			01-Jan-07		Srinivasan, G.	Diametal Compression of Wound Rolls with State Dependent Material Properties	WHRC MS Thesis, Oklahoma State University, 2007				thesis	WHRC						
3443		gage;sensor	23-Oct-06	1	Srinivasan, Tan	Selection of the best on-line gaguing sensor technolog for complex extrusion coating process	AIMCAL Fall Tech Conf Proc, Reno, October 22-25, 2006					AIMCAL	EGS Gauging					
2190		finishing;roll wrapper;robot;computer	06-Oct-85		St Pierre, A.	Finishing Room Robotics	TAPPI Finishing and Converting Conf. Proc.				conference	TAPPI						
2191	o	spread;d-bar;model	01-Jun-97		Stack, K. and Perconti, J. and Jeans, A. and LaFleche, J. and Benson, R.	A Nonlinear Finite Element Model for Web Spreading	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2192		nip;wrinkle;model	01-Aug-93		Stack, K. D. and Benson, R. C.	The Effects of Axial Variation in Nip Mechanics	Proc. of the 2nd Int'l Conf. on Advanced Mechatronics, Jeiji University, Tokyo, August 1993											
2193	o	nip;speed_control;poisson_ratio	18-Jun-95	14	Stack, K. D. and LaFleche, J.E. and Benson, R. C.	The Effects of Nip Parameters on Media Transport	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC						
2194	o	core	06-Oct-91	4	Stanfield, J.T. and Matics, D.A. and Holmene, L.G.	The Importance of High Quality, Efficient Core Processing to the Modern Papermaking Process	TAPPI Finishing and Converting Conf. Proc., Houston, pp 33-36, Oct 6-10 1991	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5678&DID=516368	In the past, crude core processing systems have provided sufficient quality in relation to the rest of the papermaking process, but as advancements in papermaking and paper finishing	conference	TAPPI						
2195	o	core;strength;jumbo_roll	24-Oct-93	8	Staples, John F.	Roll Weight Capacity of Paper Mill Cores	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 241-248, Oct 24-27 1993	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5578&DID=523491	establish and/or refine maximum weight limits for one brand of cores resulted in development of an accurate method for predicting core weight capacity	conference	TAPPI	Sonoco					
5776		unwind;core;weight;capacity;strength	01-May-94	5	Staples, John F.	Roll Weight Capacity of Paper Mill Cores	Tappi J., vol 77, no 5, pp 190-194, May 1994	4			magazine	TAPPI	Sonoco	CoreWeightCapacity	WindGeneralScan	doc and pdf	06-Nov-09	unique

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5777		unwind;core;weight;capacity;fatigue;strength	01-Jul-98	5	Staples, John F.	Next Generation of Dynamic Testing Devices	Tappi J., vol 81, no 7, pp 69-73, July 1998	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4766&DID=514230	super-wide rolls-up to 142 inches in length, carrying loads in excess of 16,000 pounds—has placed new demands on cores. The shift from older, double-drum winders to new roll- and core-supported winders has also challenged cores	magazine	TAPPI	Sonoco	CoreDynamicTesting	WindGeneralScan	doc and pdf	06-Nov-09	unique
2198	o	calender;gloss;abrasion;wear;tungsten_carbide	04-Oct-98	14	Stavros, AJ	Gloss Retention of Calender Roll Thermal Spray Coatings Abraded by TIO2 Slurries	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 39-52, October 4-8, 1998	4	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=5255&DID=508870	laboratory study was undertaken in which polished high gloss thermal spray coatings were abraded by use of titanium dioxide slurries. A two level factorial design with blocking	conference	TAPPI						
2199		diameter;calculation;shipping	01-Sep-74	3	Steels, Kenneth	Newsprint is There an Optimum Roll Diameter for Car Loading	Pulp & Paper, vol 48, no 10, pp 63065, Oct 1974				magazine	Pulp and Paper						
2682		baggy;camber;inspection	01-Jan-00	1	Steinberg, Neil	How important is substrate flatness to proper coating and how do I achieve it	Converting Magazine, vol 18, no 1, pp 36, January 2000				magazine	Converting Magazine						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2688		dryer/oven zone control	01-Mar-00	1	Steinberg, Neil	Are multiple zones really necessary in my new dryer, or are they an expensive frill	Converting Magazine, vol 18, no 3, pp 54, March 2000				magazine	Converting Magazine						
2773		infrared;camera;web;temperature;measurement	01-Nov-00	1	Steinberg, Neil	Are infrared thermometers really worth the bother?	Converting Magazine, vol 18, no 11, pp 24, November 2000	4	http://www.convertingmagazine.com/article/308766-Are_infrared_thermometers_really_worth_the_bother_.php	In most cases, an infrared thermometer, or pyrometer, is a very good investment. It can be extremely valuable when scaling-up drying conditions for a new product	magazine	Converting Magazine						
2801		lab;test;modulus	01-May-01	1	Steinberg, Neil	Is there a quick and dirty way to measure the tensile modulus of a web?	Converting Magazine, vol 19, no 5, pp 47, May 2001	3	http://www.convertingmagazine.com/article/309741-Is_there_a_quick_and_dirty_way_to_measure_the_tensile_modulus_of_a_web_.php	When you have no convenient access to a tensile tester, and if your web is at least 1 mil thick, the age-old cantilevered beam deflection method may be just what you are looking for	magazine	Converting Magazine						
2904	o	defect;troubleshoooting	22-Oct-01		Steinberg, Neil	Support Defects	AIMCAL Fall Tech Conf, Oct 22-24, 2001					AIMCAL						
2936	o	air_knife;coating	01-Mar-02		Steinberg, Neil	Is the air knife method still useful for precision coating?	Converting Magazine, vol 20, no 3, pp 20, March 2002	4	http://www.convertingmagazine.com/article/309876-Is_the_air_knife_method_still_useful_for_precision_coating_.php	It certainly is. While it may not be the coating of choice for many applications, it is a serious contender in a significant minority of cases	magazine	Converting Magazine						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3182		electric;radiant;dryer;design	01-Apr-04	1	Steinberg, Neil	I want to add electric radiant heaters to an old forced-air dryer.	Converting Magazine, vol 22, no 4, pp 18, April 2004				magazine	Converting Magazine						
3378		dryer;problems	01-May-06	3	Steinberg, Neil	A Bunch of Hot Air	Paper, Film & Foil Converter, vol 80, no 5, pp 34-36, May 2006	3	http://pffc-online.com/mag/bunch_hot_air_0506/	what causes most of the headaches that we in the web process industries suffer? Four problems: the wrong heating system, lousy instrumentation, not enough zones, and pushing the dryer beyond its design limits.	magazine	Paper Film Foil Converter						
5626		runnability;paper;web_break;roll_handling;printing_press;winding	01-Jan-63	8	Steinberg, S.	Press Problems with Newsprint, Part II	Pulp and Paper Magazine Canada, vol 64, no 1, pp 19-26, Jan 1963	2			magazine	Pulp and Paper Canada	New York Times	PressProblemsNews	Runnability Scan	doc and pdf	30-Dec-09	
2893	o	film;property	22-Oct-01		Steinberg,Neil	A Converter's View of Film Properties	AIMCAL Fall Tech Conf, Oct 22-24, 2001					AIMCAL						
3036	o	drying	13-Apr-03	5	Stelling, Peter (Dri-Tec)	Drying Systems - Optimizing Your Existing Dryer's Performance	CEMA Coating and Laminating Seminar, Chicago, April 15, 2003				shortcourse	CEMA						
2201		fiber;orientation;sensor	01-Mar-92		Stenemur, B.	Method and Device for Monitoring Fiber Orientation Distribution and Web Uniformity on Runnings Webs of Paper and Nonwovens	INDA J. of Nonwovens Research, Spring 1992											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5589		roller;thermal;heat;temperature;measure	01-Sep-95	3	Stenstrom, Stig G. et. al.	Equipment for Measurement of Cylinder Surface Temperatures	Tappi J., vol 78, no 7, pp 245-246, July 1995	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4738&DID=517785	Accurate measurement of the cylinder surface temperature provides an indication of the performance of the condensate removal system	magazine	TAPPI	Lund Institute of Technology	MeasureCylinderSurfaceTemperature	RollerScan	doc and pdf	19-Dec-09	
2203		hardness;measurement;runnability;web break	01-Jan-73		Sterl, W. et al	Measurable Properties in Wound Rolls of Printing Papers and The	Zellstoff Papier, vol 22, no 1, pp 11-14											
2204		runnability;roll structure;news print	01-Jan-79	3	Stevens, Fred and Gordon, Ralph	Publishers Problems and News Mill Solutions	Pulp & Paper Canada, vol 80, no 1, pp14-16				magazine	Pulp and Paper Canada						
5778		wind;nip;reel;density	01-Jul-98	7	Stevens, Robert K and Zwart, Jake and Loewen, Stuart	Building a Defect Free Reel on the Paper Machine	Tappi J., vol 81, no 7, pp 123-129, July 1998	2	http://www.tappi.org/s_tappi/sec publications.asp?CID=4766&DID=518838	More crepe wrinkles in reels occur today due to larger diameter reels, more calendering for a smoother finish, fillers causing increased paper density, and recycled furnish giving a lower coefficient of friction	magazine	TAPPI	LSZ Papertech	ReelDensityZwart	WindGeneralScan	pdf	06-Nov-09	data

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2205	o	reel;nip;control	21-Sep-97	8	Stevens, Robert K. and Zwart, Jake and Loewen, Stuart R.	Building a Defect Free Reel on the Paper Machine	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 87-94, September 21-24, 1997	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5326&DID=511802	More crepe wrinkles in reels occur today due to larger diameter reels, more calendering for a smoother fin-ish, fillers causing increased paper density, and recycled furnish giving a lower coefficient of friction	conference	TAPPI	LSZ Papertech					
5779		wind;tissue;towel;design;critical_speed;vibration	01-Feb-74	5	Stevenson, G F	Tissue Winding	Paper Technology & Industry, vol 15, no 1, pp 24-28	3			magazine	Paper Technology	Paper Converting Machine	TissueWindingStevenson	WindGeneralScan	doc and pdf	06-Nov-09	legacy
2208		safety;reel	01-Aug-90		Stevenson, S.	Reel Safety: Really Safe	Pulp & Paper Canada, Aug 1990				magazine	Pulp and Paper Canada						
2209	o	rebuild;project_plan	01-Sep-93	5	Stewart, Dale	Paper Machine Rebuild Schedule and Execution Plan	Tappi J., vol 76, no 9, pp 47-51, Sep 1993	3	http://www.tappi.org/s_tappi/secpublications.asp?CID=4786&DID=520291	Everything from planning and developing the project schedule to progress reporting and final execution of the plan is covered here. Follow these guidelines to improve your odds for a successful rebuild project	magazine	TAPPI						
2210		web_handling;film	04-Oct-94	54	Stewart, John	Principles of Thin Film Handling	AIMCAL 1994 Fall Tech. Conf. Proc., Atlanta, pp 1-54, Oct 4-5, 1994					AIMCAL						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2211		duplex winder;operation	21-May-84		Stickney, R.L.	Individual Station Winders	TAPPI Finishing Short Course (Portland) Notes, pp 23				conference	TAPPI						
2212		calender	01-Jul-91		Stieb, M.	Escher Wyss Nipco Calenders	Wochenbl. Papierfabr., Jul 1991											
2213		efficiency;rebuild;production;safety	11-Nov-73	4	Stile, Richard J.	Winder Modernization	TAPPI Finishing and Converting Conf. Proc., 1973				conference	TAPPI	Beloit					
2214		cost;density;dimension;efficiency;forming;machine;design ;moist	05-Apr-88		Stirling, J.B. et al	Looking Over Two Shoulders (- The Paper Maker's and the Printer'	Pulp & Paper Canada, vol 78, no. C, pp R25-27 (Convention issue)				magazine	Pulp and Paper Canada						
2215	o	scheduling	04-Oct-98	16	Stockler, Arthur	The on-Line Manufacture of Rotogravure Print Paper	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 11-26, October 4-8, 1998	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5255&DID=509158	production capacity for one year is 560,000 t. Waste paper and TMP cover the requirements for raw materials for the three paper machines. The main source of fiber is the waste paper treatment	conference	TAPPI						
2216		property;compressive;strength;shear;strength;test method;linerb	01-Jul-76	5	Stockmann, Volker E.	Measurement of Intrinsic Compressive Strength of Paper	Tappi J., vol 59, no 7, pp 93-97, Jul 1976				magazine	TAPPI						
5535		sheet;sheeting	01-Jan-91	9	Stolte, James and Benson, Richard C.	Dynamic Deflection of Paper Emerging from a Channel	ASME Machinery Dynamics and Element Vibrations, DE vol 36, pp 51-58, 1991	2			magazine	ASME	ASME	Dynamic Deflection	MiscScan	doc and pdf	26-Dec-09	
2218		print;textile	01-Jan-74	3	Storey, Joyce	The Thames and Huson Manual of Textile Printing	Thames and Hudson, London, pp 133-135, 1974											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2219		surface;roughness;measurment;metallize;polypropylene	01-Dec-95	3	Stout, Tom and Sprecht, Jim and Wilhelmi, Gary	Measurement Technique Improves Metallized PP	Paper, Film & Foil Converter, pp 50-52, December 1995				magazine	Paper Film Foil Converter						
2220	o	information	24-Oct-93	4	Strang, R.G.	How Information Technology Can Benefit a Converting Operation	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 213-216, Oct 24-27 1993	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5578&DID=523487	Real-time, integrated scheduling also helps the converting scheduler efficiently plan the ever increasing number of smaller orders and order changes. Capabilities like resource bottleneck planning, total mill trim optimization, and retrim	conference	TAPPI						
5590		roller;spherical;bearing;maintenance;temperature	01-Dec-94	3	Strickland, Charles L.	How to keep spherical roller bearings in your paper machines' dryer section operational	Tappi J., vol 77, no 12, pp 237-239, December 1994	3	http://www.tappi.org/s_tappi/sec publications.asp?CID=4802&DID=520403	maintenance-related problems, ranging from incorrectly measured drive-up clearances to a leaking oil circulation system, can cause a bearing to fail, posing a danger to the bearing journal and adjacent machine components	magazine	TAPPI	SKF	SphericalRollerBearingDryer	RollerScan	doc and pdf	19-Dec-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6044	o	tension;model	13-Jun-11	26	Strike, Gary P.	The Ke Models: Theoretical Dynamic Subsystems of Longitudinal Web Strain	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15				conference	WHRC	Webtech Omega LLC					
2223		corona_treat	01-Apr-98	2	Strobbe, Bruce	How to achieve consistency in Corona Treating	Converting Magazine, vol 16, no 4, pp 66, 68, April 1998				magazine	Converting Magazine						
2224		splice;spool;reel	01-Jun-84	2	Stroms, K.F.	Web Splicing for Threading New Reel Supply	IBM Technical Disclosure Bulletin, vol 27, no 1B, pp 821-822, Jun 1984											
5841		wind;stress;model;air_entrain		13	Struik, L.C.E.	The Winding of Webs into Rolls.	TNO Rubber and Plastics Institute, Delft, Netherlands	3			report	author	TNO Rubber and Plastics Institute	WindingWebsTNO	WindModel Scan	doc and pdf	28-Nov-09	
5842		wind;stress;model;air_entrain		76	Struik, L.C.E. et. Al.	Overview of Winding	TNO Rubber and Plastics Institute, Delft, Netherlands	2			report	author	TNO Rubber and Plastics Institute	TNOwindingSchool	WindModel Scan	pdf	28-Nov-09	
10098		drying	20-Oct-14		Sturnfield, James	Understanding Drying in the Coating Process	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014				conference	AIMCAL	Dow Chemical					
2226		duplex winder	30-Apr-79	2	Suarez, Rafael Jr.	S. D. Warrens Westbrook Mill Runs Single Drum Winder 1:1 With C	Paper Trade J., vol 163, no 8, pp 23-24, Apr 30 1979				magazine	Paper Trade J						
2227		material;property;shear	01-Jun-90		Subramanian, V. et al	Determining Factors that Effect Fabric Shear Behavior with the Twist Method	Textile Research J., Jun 1990				magazine	Textile Research J						
3110		rubber;roller;cover;deformation	01-Jan-96	1	Sueoka, A. and Ryu, T. and Kondou, T. and Tsuda, Y. and Katayama, K. and Takasaki, K. and Yamaguuchi, M. and Hirooka, H.	Polygonal deformation of roll-covering rubber	JSME Int'l J, Series C, vol 39, no 1, pp 1-10, 1996											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3323		nip;vibration	01-Jan-96	10	Sueoka, A. and Ryu, T. et all	Polygonal deformation of roll-covering rubber	JSME Int'l J, Series C, 39(1), pp 1-10, 1j996											
3194		light_curtain;sensor;safety;mat	02-Jun-04	1	Suffi, Reno	Safety Components for Machine Technologies In Safety and Applications	CEMA Annual Meeting, June 2-4, 2004											
2228		sheet;air_float	01-Mar-90		Suh, Kwang-Ha	Dynamic Analysis of Discrete Webs	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						
2229		calender;news	01-Jan-90		Sunnerberg, G.	Structural Changes in Newsprint During Machine Calendering	Swedish Newsprint Research Centre, Report no. 90:8, Djursholm Sweden, 1990											
2230		calender;news;property	01-Aug-90		Sunnerberg, G.	Structural Changes in Newsprint During Machine Calendering	TFL Report No 90:8											
2231		calender;soft	01-Sep-91		Sunnerberg, G.	Soft Calendering - A New-Old Tecnique	Tidn. Tec., Sep 1991											
2646	o	calender;temperature	03-Oct-99	18	Suontausta, Olli and Jarvinen, Hannele	Effect of High Calendering Temperature and Calendering Speed on … LWC Paper	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 55-72, October 3-7, 1999	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5187&DID=508199	Mill-made LWC paper was calendered at KCL's Pilot Plant with the new 10-nip Multical calender equipped with polymer roll stack	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3342	o	extrusion;blow n;film;die	26-Sep-05		Suppon, Fred and Wells, Beth	Automatic Servo Positioned Air Knife Systems for Optimal Cast Film Quenching	TAPPI PLACE Conf, Las Vegas, September 26, 2005	3	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=5026&DID=526666	gentle pressure to lay the film smoothly on the chill roll and minimize the entrapped air layer between the film and the chill roll with superior repeatability over traditional air knives	conference	TAPPI	Black Clawson					
2232		experiment;nip	01-Oct-74		Sussman, P.G.	Checking Nip Pressure Uniformity	Paper Technology & Industry				magazine	Paper Technology						
14105		coating;flow;m odel	01-Oct-15	4	Suszynski, Wieslaw	Coating-flow visualization: what can be seen and why it matters	Converting Quarterly, qtr 3, 2015	5			magazine	AIMCAL	University of Minnesota					
2233		dryer	01-Apr-94	3	Sutton, Judy	Going with the (air) flow	Package Printing & Converting, vol 41, no 4, pp 46-49, April 1994				magazine	Package Printing & Converting						
5780		wind;tissue;ree l;design	01-Dec-91	4	Svanqvist, Tord	Designing a reel for soft tissue	Paper Technology, pp 8-11, Dec 1991	3			magazine	Paper Technology	Valmet (Metso)	TissueReel Svanqvist	WindGener alScan	doc and pdf	06-Nov-09	legacy
2235	o	web;scan;cale nder	15-Oct-95	10	Svenka, P.	A New Cross Profiling System for Hard and Soft Nip Calenders	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 187-196, Oct 15-18, 1995	4	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=5460&DID=521818	controlled crown compensated roll gives the papermaker a tool for making both broad-and narrow-wave CD profile corrections without external devices	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2236		roll;control_crown;cc;deflection;shell;fem;model;profile	01-Oct-96	13	Svenka, Peter and Minkenberg, Rudi	A New Cross-Profiling System for hard and soft nip calenders	Tappi J., vol 79, no 10, pp 203-215, October 1996	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4756&DID=518537	controlled crown compensated roll gives the papermaker a tool for making both broad-and narrow-wave CD profile corrections without external devices	magazine	TAPPI						
2237	o	calender;design	04-Oct-98	14	Svenka, Peter and Sorenson, Mark	The Future of Calender Technology	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 203-216, October 4-8, 1998				conference	TAPPI						
2238	o	wind;model;ultrasonic;stress;measure	19-May-91	11	Swanson, Ronald P.	Determination of Wound Roll Structure Using Acoustic Time of Flight Measurement	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 57-67, May19-22 1991					WHRC	3M					
2239	o	wind;roll_structure;acoustic;model	01-May-92	136	Swanson, Ronald P.	Determination of Wound Roll Structure Using Acoustic Time of Flight Measurement	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC	3M					
2240	o	oven;dry;lateral;profile;model	06-Jun-93	20	Swanson, Ronald P.	Air Support conveyance of Uniform and Non-Uniform Webs	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC	3M					
2241	o	spread;measure	01-Jun-97		Swanson, Ronald P.	Testing and Analysis of Web Spreading and Anti-Wrinkle Devices	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC	3M					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2607	o	guide;model	06-Jun-99	16	Swanson, Ronald P.	Mechanics of Non-Uniform Webs	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC	3M					
3410	o	curl;measurement	07-May-06	1	Swanson, Ronald P.	Measurement of Web Curl	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	3M					
3726	o	guide;baggy;model	07-Jun-09	20	Swanson, Ronald P.	Lateral Dynamics of Non-Uniform Webs	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC	3M					
2242		property;creep;film	01-Mar-90		Sweeney, J. and Ward, I.M	A Unified Model of Stress Relaxation and Creep Applied to Oriented Polyethylene	Materials, Mar 1990											
2243		belt;pulley;crown	01-Jun-32	45	Swift, H.W.	Cambers for Belt Pulleys	Proceedings, Institution of Mechanical Engineers (London), vol 122, pp 627-683, June 1932											
6108		belt;band_brake;traction	01-Jan-28		Swift, H.W.	Power Transmission by Belts: An Investigation of Fundamentals	Institute of Mechanical Engineers, vol 115, no 2, pp 659-743, 1928											
2244		mechanical drive;belt;	01-Feb-28	44	Swift, H.W.	Power Transmission by Belts: An Investigation of Fundamentals	Institution of Mechancial Engineers, vol 115, no 2, pp 65, 1928											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2245		roller;nip_impression	01-Jul-97	4	Swinak, Joseph A	Techniques for Nip Impressions	Tappi J., vol 80, no 7, pp 121-124, July 1997	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4862&DID=518696	nip impressions, the various media available to perform the work, general instructions for taking the impressions, information to analyze the results, and discussion of a crown correction equation based on nip impression measurements	magazine	TAPPI						
5917		wind;density;measure;design	01-Oct-90		Swinehart, Dirk E and Damron, J Richard	Wound roll density analysis for supercalenders	Tappi 1990 Finishing and Converting Conference Proceedings	3	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=5730&DID=515343	Density of the wound roll is measured using a wound roll density (WRD) analyzer, which calculates the average wound-in caliper of the web as the roll is building. With a known basis weight, a density profile of the roll is easily developed	magazine	TAPPI	Mead Paper	SupercalenderDensity Swinehart	WindDensityScan	doc and pdf	07-Oct-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5726		wind;density;measure;design	01-Apr-91	5	Swinehart, Dirk E and Damron, J Richard	Wound roll density analysis for supercalenders	Tappi J., vol 74, no 4, Apr 1991	3	http://www.tappi.org/s_tappi/sec publications.asp?CID=4819&DID=514654	Density of the wound roll is measured using a wound roll density (WRD) analyzer, which calculates the average wound-in caliper of the web as the roll is building. With a known basis weight, a density profile of the roll is easily developed	magazine	TAPPI	Mead Paper	SupercalenderDensity Swinehart	WindDensityScan	doc and pdf	07-Oct-09	
2247	o	web_break;runnability;fracture;tension	18-Jun-95	10	Swinehart, Dirk E. and Broek, D.	Tenacity, Fracture Mechanics & Unknown Coater Web Breaks	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC	Mead Paper					
5628		runnability;paper;web_break;coater;strength;model	01-Nov-95	9	Swinehart, Dirk E. and Broek, D.	Tenacity and Fracture Toughness of Paper and Board	J. of Pulp and Paper Science, vol 21, no 11, pp J389-397, November 1995	3			magazine	J Pulp and Paper Science	Mead Paper	TenacityFractureToughness	RunnabilityScan	doc and pdf	30-Dec-09	
5627		runnability;paper;web_break;coater;strength;model	01-Feb-96	5	Swinehart, Dirk E. and Broek, D.	Tenacity, Fracture Mechanics and Unknown Coater Web Breaks	Tappi J., vol 79, no 2, pp 233-237, February 1996	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4853&DID=518963	A webbreak model, based on fracture mechanics, was used to investigate unknown coater web breaks. Runnability was defined as L b , the length between breaks. The model included the size distribution of defects	magazine	TAPPI	Mead Paper	TenacityFractureMechanics	RunnabilityScan	doc and pdf	30-Dec-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2250	o	calender;roll;roller;quality;density	07-Oct-90	16	Swinehart, Dirk E. and Damron, J.R.	Using Wound Roll Density Analysis for Supercalenders	TAPPI Finishing and Converting Conf. Proc., Lake Buena Vista FL, pp 49-64, Oct 7-10 1990	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5730&DID=515343	ratio of centerwind and surface drum winding and tapered tension. Manual controls include secondary arm pressure, web tension setting, and settings for ratio of centerwind and surface drum winding	conference	TAPPI	Mead Paper					
5710		roller;air_entrainment;measurement;calculation	01-Dec-87	204	Tajuddin, By	Mathematical Modelling of Air Entrainment in Web Handling Applications	OK. State Univ., WHRC, M.S. Thesis, Dec 1987	5			thesis	WHRC	self	ModelAirEntrainTajuddin	WebHandlingScan	doc and pdf	22-Dec-09	important precedent
2252		drive;tension;control	09-Jul-98	4	Tal, Jacob	Relieving Tension with electronic gearing	Machine Design, July 9, 1998				magazine							
2253			01-Apr-82		Tanaka, S. et al	Integrated Operation Managements and Control for Paper Mills	ISA Transactions, vol 21, no. 4, pp 1, Apr 1982											
2254		flutter;textile	01-Jan-66		Taneda, S.	Drag Force of Fluttering Textile	Proc. of the 21st Annual Conf, Japanese Society of Physics, 1966											
2804		wind;model	01-Jan-96		Tanimoto, K and Kohno, K and amamotoM and Watanabe, T	Numerical Simulation of Wound Roll	Japan TAPPI Annual Mtg Proc, Toyama, 1996											
2816	o	wind;model;air_entrain	11-Jun-01	10	Tanimoto, K.	In-Roll Stress Analysis of Wound Roll with Air Entrainment and Air Permeation	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3735		wind;air_entrain	01-Jan-03		Tanimoto, K. and Kohno, K. and Takahashi, S. and Sasaki, M and Yoshida, F.	Wound Stress of Permeable Papers with Air Enrainment	Archive of Applied Mechanics, vol 73, pp 160-170, 2003											
3547		roller:alignment	01-Jan-08	4	Tannan, Jan	Roll Alignment	Paper, Film & Foil Converter, vol 82, no 1, pp 42-45, January 2008	3	http://pffc-online.com/web_handling/parallel_protocol_0101/	When a machine is first installed, each roller should be measured to be tram (horizontal) and level (vertical) with the machine. Components and parts of a machine can shift outside the original specified tolerances over time	magazine	Paper Film Foil Converter	Pruftechnik					
5986		wind;hardness;measure	01-Jan-10	19	TAPIO	TAPIO RQP Roll Quality Profiler Operating Manual		4			operating	TAPIO	TAPIO	TAPIO_RQPv2.0_Manual_1.2en	Equipment Lit	pdf	24-Nov-10	
5985		wind;hardness;measure	01-Jan-10	2	TAPIO	TAPIO RQP Roll Quality Profiler Wireless Model		3			sales	TAPIO	TAPIO	Tapio_RQP_v2.0_Wireless_brochure3	Equipment Lit	pdf	24-Nov-10	
3295	o	lateral;model	05-Jun-05	10	Tarnopolaskaya, T. and Yuen, W.Y.D and Gates, D. and DeHoog, F.R.	Web Lateral Dyanmics with Buckling in Sheet Metal Rolling	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC						
2255		register;print	01-Jan-90		Tasch, J.J.	Improved Quality through High-Precision Register Controls	Newspaper Technology, Jan 1990											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2256		fiber;orientation;measure	01-Sep-91		Tasi, P. et al	Fiber Orientation from Electrical Measures Part II	Nonwovens Research, Fall 1991											
2257		web;property;control	01-Feb-91		Taylor, B.F.	Optimum Separation of Machine-Direction and Cross-Direction Product Variations	Tappi J., vol 74, no 2, Sep 1991	4	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5706&DID=515995	this paper proposes alternative techniques that reduce the influence of both high and low-frequency MD variability on the final control profile. Easter scanning, parallel measurement data processing, and adaptive profile	magazine	TAPPI						
9838		print;digital	22-Oct-12		Taylor, Dene	Industrial Digital Printing for the Converting Industry	AIMCAL Web Coating Conference, Myrtle Beach, Oct 22-24, 2012			Variable thickness coatings Pattern coatings Masks Textures Patterned primers Patterned release layers Adhesives Embossing masters and of course serialized printing	conference	AIMCAL	Specialty Papers & Films, Inc					
2258		vibration;book	01-Jan-90		Taylor, J.I.	The Vibration Analysis Handbook	Vibration Consultants Inc., Tampa FL, 1990	10			Book							

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2259	o	wind;air_entrainment	01-Jun-97		Taylor, R.M. and Good, J.K.	Entrained Air Films in Centerwound Rolls - With and Without the Nip	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC						
2260		slitter;knife	25-Jan-78		Tebbutt, G.	Machine knives	BPBIF Conf. Cutting Paper Board (Bristol)											
3399	o	unwind;flying_splice	07-May-06	1	Teich, Donald	The challenges of high speed splicing	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Black Clawson					
3350	o	winding;splicing	26-Sep-05		Teich, Donald L. and Tetro, Richard S.	Challenges of High Speed Splicing	TAPPI PLACE Conf, Las Vegas, September 26, 2005	3	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5026&DID=526860	Accuracy and repeatability of splicing systems become critical when splicing at high web speeds, and failure to consider and solve the obstacles will result in decreased splicing reliability and increased downtime	conference	TAPPI	Black Clawson					
3559	o	slitter;positioning	06-May-08	1	Teixeira, Luis	Web Running Slitting Changes Based on Vision System Output Signals	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL						
2261		wind;model;creep;relax	01-Jul-90		Terenziano, R.	Effects of Material Relaxation on the Mechanics of Strip Winding	Mechanical Research Communications, Jul-Aug 1990											
2262		roller;coating	01-May-90		Terler, W.	The Efficiency of Hard Facing Winding Cylinders	EUCEPA Conf. Proc., Stockholm, May 1990				conference							

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3214	o	splicing	25-Oct-04	1	Tetro, Richard and Hubbard, Charles (Black Clawson)	The Challenges of High Speed Splicing	AIMCAL Fall Tech Conf, Charleston SC, Oct 24-27, 2004					AIMCAL						
2263		yankee_dryer; survey	01-Sep-95	4	Tholke, Brian W.	Survey of Yankee Dryers and MG cylinders	Tappi J., vol 78, no 9, pp101-104, September 1995	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4741&DID=514162	Data from suppliers, owners, and operators of Yankee dryers and MG cylinders shows population size, location, diameter, shell length, shell design, and years of service of these units. The author develops statistics	magazine	TAPPI						
2264	o	wind;model,composite;FEM	19-May-91	9	Thomas, R. K.	Mechanical States in Wound Heterogeneous Tapes by the Finite Element Method	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 45-153, May19-22 1991					WHRC						
2265		splice;sheeter; productivity	11-Oct-81	3	Thomas, Richard H.	Automatic Splicers applied to High Speed Precision Sheeters	TAPPI Finishing and Converting Conf. Proc., 1981				conference	TAPPI						
2266		video;inspection	01-Jul-95	4	Thome, John D.	Future of Video Inspection Systems Seems Bright	Paper Film Foil Converter, pp 48-51, July 1995				magazine	Paper Film Foil Converter						
2798		web;camera;inspection	01-Apr-01	5	Thome, John D.	What is 100% inspection and how can it work for you?	Paper, Film & Foil Converter, vol 75, no 4, pp 90-96, April 2001				magazine	Paper Film Foil Converter						
2267		measurement; film;friction;nonwoven;polyethylene;traction	01-Sep-88	5	Thompson, Katherine I.	Coefficient of Friction Testing and Factors that Affect the Friction	Tappi J., vol 71, no 9, pp 157-161, Sep 1988				magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2268		guide;alignment;tension	01-Jan-87	3	Thompson, Ron and Cappell, Dan.	How to Guide Synthetic Forming Fabrics	Tappi J., vol 70, no 1, pp 65-67, Jan 1987				magazine	TAPPI						
6024		unwind;waste;core	01-Jan-11	2	Thomson, Craig	Core Savings	Paper, Film & Foil Converter, vol 85, no 1, pp 25-26, Jan 2011	3	http://login.pffc-online.com/wall.aspx?ERIGHTS_TARGET=http%3A%2F%2Fpffc-online.com%2Fweb_handling%2Fwinding_unwinding_rewinding%2Fthomson-explains-reducing-paperboard-process-0111%2F	Each time a roll-fed press or process press stops, it creates waste. Automatic splicing will eliminate material	magazine	Paper Film Foil Converter	Martin Automatic					
2269		wind;roll_structure;control	01-Jan-86		Thoresson, B.	New Developments in Winder Programming - a way to better roll quality	CPPA 72nd Annual Mtg., Montreal, 1986											
5843		wind;stress;model;wrinkle	01-Jan-89	4	Thorpe, James	Analysis of Dimensional Stability - Roll Cockle	Nordic Pulp and Paper Research J, no 1, pp 51-53, Jan 1989	4			magazine	NordicPulpPaper	Empire State Paper Research	AnalysisRollCockle	WindModelScan	doc and pdf	28-Nov-09	
2270		paper;property;computer;program;kraft;stress;strain;dry	01-Mar-81	3	Thorpe, James L and Choi, Doeung	Paper as an Orthotropic Thin Plate	Tappi J., vol 64, no 3, pp 119-121, Mar 1981				magazine	TAPPI						
5551		moisture;roll;cockle;moisture_welt	01-May-91	5	Thorpe, James L and Choi, Doeung	Roll cockle - following its evolution	Tappi J., vol 74, no 5, pp 204-209, May 1991	4			magazine	TAPPI	SUNY College	RollCockle Tappi	MoistureScan	doc and pdf	17-Sep-09	
2271		board;corrugate;strength	01-Jul-91		Thorpe, James L and Choi, Doeung	Corrugated Container Failure, part 1 - Strain Measurements in Laboratory Compression Tests	Tappi J., vol 75, no 7, Jul 1992				magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2272		box;board;creep;failure;strength	01-Oct-91		Thorpe, James L and Choi, Doeung	Corrugated Container Failure - Creep Strain Measurements	Tappi J., vol 74, no 10, Oct 1991				magazine	TAPPI						
5550		moisture;box;container;creep	01-Oct-91	7	Thorpe, James L and Choi, Doeung	Corrugated container failure - creep strain measurements	Tappi J., vol 74, no 10, pp 172-177, Oct 1991	3			magazine	TAPPI	SUNY College	MoistureContainerCreep	MoistureScan	doc and pdf	17-Sep-09	
9945	o	baggy_web;roll;hardness;measure;defect	02-Jun-13	10	Thuer, Amy	Using Roll Hardness to screen for excessive web bagginess	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	5			conference	WHRC	Avery Dennison					
2276		drum;coating;tungsten carbide;friction;torque;traction;roll;sli	17-Oct-82	2	Thun, D.P.	Traction Coat on Rewind Roll Ends Slippage Problems	TAPPI Finishing and Converting Conf. Proc., 1982				conference	TAPPI						
3464		moisture_welts;label;release_liner	01-Dec-06	2	Thyberg, Michael	Cure Cockling	Paper, Film & Foil Converter, vol 80, no 12, pp 26-37, December 2006				magazine	Paper Film Foil Converter	Adchem					
5475		guide;steering;displacement		6	Tielkemeier, Matthew	Fundamentals of Lateral Web Behavior	WHRC Report	2			report	Dri-Tec	DRI-TEC	WebGuidingLaminating	GuideScan	doc and pdf	25-Dec-09	
2277		guides	27-Mar-96	10	Tielkemeier, Matthew	Guides	CEMA Conf, The Coating and Laminating Process, March 27-28, 1996				conference	CEMA	DRI-TEC					
5469		coating;tension;guide	27-Mar-96	20	Tielkemeier, Matthew	Achieving Better Laminations through Advanced Technology	CEMA Shortcourse The Coating and Lamination Process Substrates, Coatings and Equipment, March 27, 1996	3			shortcourse	CEMA	DRI-TEC	Lamination Technology Tielkemeier	CtgCema96	doc and pdf	01-Oct-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2879		dryers	01-Sep-01	10	Tielkemeier, Matthew	The Parts and Performance of Web Convection Dryers	Paper, Film & Foil Converter, vol 75, no 9, pp 40-51, September 2001	3	http://pffc-online.com/mag/paper_parts_performance_web/	most of the coatings available for converting require either water or a solvent to be evacuated from the solids contained in the coating solution. Convection drying in one form or another is the best, most time-proven technique	magazine	Paper Film Foil Converter	DRI-TEC					
3284		md;cd;basis_wgt;scanner	01-May-05	4	Timberlake, Ann	Expert Paper and Process Analyses Prepare Mills for Successful Rebuilds	Pulp & Paper, pp 45-49, May 2005				magazine	Pulp and Paper						
2279		core;manufacture;handling	06-Oct-85	3	Timell, Hans H.	State of the Art in Core Manufacture Handling and Preparations	TAPPI Finishing and Converting Conf. Proc., 1985				conference	TAPPI						
2280		core;manufacture;handling	20-Jan-86		Timell, Hans H.	State of the Art in Core Manufacture Handling and Preparation	CPPA Annual Mtg Preprints 72B, pp 351-353				conference	CPPA						
2278	o	core;handling	01-Oct-89	4	Timell, Hans H. and Holmene, L.G. and Henderson, W.T.	Automatic Core Cutting and Handling	TAPPI Finishing and Converting Conf. Proc., Kansas City MO, pp 149-152, Oct 1-5 1989				conference	TAPPI						
2281		paper;ultrasonic;test;modulus;strength	01-Jan-94	4	Titus, Magnus	Ultrasonic Technology - Measurements of Paper Orientation and Elastic Properties	Tappi J., vol 77, no 1, pp 127-130, January 1994				magazine	TAPPI						
5629		runnability;paper;web_break;measurement;print;press;performance	01-Dec-78	6	Toivanen, P.	Web Break Statistics of Newsprint in Finland	Paperi Ju Puu, vol 60, no 12, pp 778-783, Dec 1978	4			magazine	Paperi ja Puu		WebBreakStatisticsFinland	Runnability Scan	doc and pdf	30-Dec-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2283	o	wind;design;lwc	04-Oct-98	10	Tolonen, Petri and Strengel, Jyrki	Winding Force as a Tool for Successful Winding of LWC Paper	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 65-74, October 4-8, 1998	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5255&DID=509161	equipped with all automatic features including reel spool handling, full width web threading , core handling, wound roll tail fastening, butt-joint back-splicing, trim change and set change	conference	TAPPI						
2284		measure;basis_weight	01-Oct-91		Tomimasu, H. and Luner, P.	Imaging of Mass Distribution in Paper by Electrography Technique	Japan Tappi J., Oct 1991				magazine							
5591		roller;journal;design;stress;fit	01-Mar-95	6	Tonglin, Shu et al	Assembly Stresses and the Strength of Hollow Iron Rolls	Tappi J., vol 78, no 3, pp 185-190, March 1995	4	http://www.tappi.org/s_tappi/secpublications.asp?CID=4847&DID=518600	Assembly, computation, finite element analysis, hollow structures, iron, mechanical properties, press rolls, stresses	magazine	TAPPI	Jilin Paper Machinery	AssemblyStrengthPressRolls	RollerScan	doc and pdf	19-Dec-09	
3163		safety	01-Dec-03	5	Topf, Michael	Stress, Distraction of paper industry business cause need for creating a safety culture	Pulp & Paper, vol 77, no 12, pp 40-44, December 2003.				magazine	Pulp and Paper						
2286		winder		12	Tornberg. I.E.	Winding-up Machinery	PIMA Conference, Developments in Film for Packaging, February 22-					PIMA						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6136		book;film;manufacture;process;extrusion	01-Jan-99	435	Toshitaka Kanai (Editor), Gregory A. Campbell (Editor)	Film Processing (Progress in Polymer Processing)	Hanser Gardner Publications (September 1999)	10	http://www.amazon.com/Film-Processing-Progress-Polymer/dp/1569902526	hardware and operating techniques permitting increasingly high production rates, optimum property development, unusual degrees of molecular orientation and the coextrusion of multi-layer, multi-component film and sheet	book	Hanser Gardner Publications						
2962		coat;basis_weight;measure;scan	09-Sep-02		Townsend, Kenneth J.	Qualitative Techniques for Improved Coat Weight Measurement	TAPPI PLACE Conf. Proc., Boston, Sept 9-12, 2002				conference	TAPPI	EGS					
3225	o	gage;caliper;measurement	29-Aug-04		Townsend, Kenneth J.	Measurements - Back to Basics	TAPPI PLACE Conf, Indianapolis, August 29, 2004				conference	TAPPI	EGS					
5844		wind;stress;model	01-Apr-65	9	Tramposch, H.	Relaxation of Internal Forces in a Wound Reel of Magnetic Tape	J. of Applied Mechanics, Transactions of the ASME, vol 32	2			magazine	J Applied Mechanics	Pitney-Bowes	RelaxationInternalForces	WindModelScan	doc and pdf	28-Nov-09	
5845		wind;stress;model	01-Jan-67	7	Tramposch, H.	Anisotropic Relaxation of Internal Forces in a Wound Reel of Material	J. of Applied Mechanics, Transactions of the ASME, vol 34	2			magazine	J Applied Mechanics	Pitney-Bowes	AnisotropicRelaxationInternal	WindModelScan	doc and pdf	28-Nov-09	
9799		vacuum_dep	10-Jun-12		Trasl, Stephan	Vacuum Web Coated Films for Touch Sensitive Surfaces	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Heuck Folien					
2289		material;property;nonwoven	01-Sep-89		Tsai, P.P and Bresee, R.	Mechanical Constants of Thin Nonwoven Webs from Electrical Measurements	Inda J. of Nonwovens Research, Fall 1989											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2290		heat;conduct; measure	01-Aug-91		Tsutsumi, N.	Measurement of Thermal Diffusivity of Filler-Polimide Composites by Flash Radiometry	J. of Polymer Science, Aug 1991				magazine							
2291	o	shoe_calender	04-Oct-98	6	Tuomisto, Martti and Tani Mikko	Enter Shoe Calender	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 33-38, October 4-8, 1998	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5255&DID=509159	applications for shoe calendering, which produces improved surface finish and uniformity, while minimizing the loss of bulk, stiffness and strength.	conference	TAPPI						
2292		vibration;frame work;	01-Mar-80		Tuomisto, Martti V.	KI-1000 Wartsila Winder Features Stoneheart Structure to Dampen Vibration	Paper Age, vol 16, no 3, pp 42-43				magazine	Paper Age						
2293		calender	01-Jan-90	3	Tuomisto, Martti V.	On-Line Soft Calendering with Valmet SC-2000	Pulp & Paper Canada, vol 91, no 1, 1990				magazine	Pulp and Paper Canada						
2294	o	calender;automation	07-Oct-90	12	Tuomisto, Martti V.	Supercalenders go High Tech: Rapid Advances in Automation and Quality Control Systems	TAPPI Finishing and Converting Conf. Proc., Lake Buena Vista FL, pp 29-40, Oct 7-10 1990				conference	TAPPI						
2295		wind;reel;spool	01-Oct-95	5	Tuomisto, Martti V.	Eliminating Production Losses on a paper machine reel	Tappi J., vol 78, no 10, pp 191-195, October 1995				magazine	TAPPI						
2296	o	calender;hot;soft	01-Oct-89	8	Tuomisto, Martti V. and Sipi, K.	Hot Soft Calendering of Groundwood Printing Papers: The benefits are Hard to Beat	TAPPI Finishing and Converting Conf. Proc., Kansas City MO, pp 79-86, Oct 1-5 1989				conference	TAPPI						
2297		bridle;roll diameter;roll;roller;design	01-Jan-65	8	Turner, Gordon C.	The Design and Application of Bridles for Process Lines	Iron and Steel Engineer Year Book, pp 211-218, 1965											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5697		mill;roller;vibration;maintenance;diagnostics		12	Turner, John S	Vibration Troubleshooting Techniques	Paper Age	3			magazine	Paper Age	OASIS Inc	VibrationTroubleshootingOASIS	VibrationScan	doc and pdf	01-Oct-09	
2299	o	wound_roll;shipping	15-Oct-95	2	Turner, R.	Shippers Exposure to Liability When a Trailer is Improperly Loaded	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp 31-32, Oct 15-18, 1995	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5460&DID=521823	Improper loading of a trailer can result in an accident causing personal injury and property damage. A driver, after having picked up a preloaded trailer at a paper mill	conference	TAPPI						
3087		winder;two_drum	01-May-97	100	Turner, R.N.	Empirical Analysis of Two Drum Winding	MS Thesis, WHRC, Oklahoma State University, May 1997.				thesis	WHRC						
2300	c	roller;grind;spec	01-May-68	4	Twitchen, D.	Paper Machine Roll Grinding Tolerances	Canadian Pulp & Paper Association, G-20, May 1988				magazine	Canadian Pulp & Paper Ind						
9801			10-Jun-12		Tyle, Pradeep	Technological Framework for Packaging Film Substrate Development	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	UFLEX Ltd					
2301	o	steel;lateral;model	06-Jun-93	12	Uchida, Kiroyuki and Suzuki, Noriyuki and Kikuchi, Atsuchi	Strip Walk Simulation for Continuous Processing Lines	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC						
6068		drive;tension;model	06-Apr-11		Udani, Ashish	Modeling and Analysis of Drive Systems	ICE USA 2011 Tech Program	3			conference	ICE AIMCAL	Rockwell Automation					
2302		curl	01-Feb-91	8	Uesaka, T.	Dimensional Stability of Paper: Upgrading Paper Performance in End Use	J. of Pulp and Paper Science, vol 17, no 2, pp J39-J46, February 1991				magazine	J Pulp and Paper Science						
9998		moisture;expansion	01-Jan-94	5	Uesaka, T.	General formula for hygroexpansion of paper	J of Material Science, vol 29, pp 2373-2377, 1994				journal							

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2303					Uesaka, Tetsu and Murakami, Koji and Imamura, Rikizo	Dependence of In-Plane Elastic Moduli of Paper on Basis Weight	Material, vol 26, no 284, pp 78-82, [Japanese]											
2304		property	01-Aug-79	4	Uesaka, Tetsu and Murakami, Koji and Imamura, Rikizo	Biaxial Tensile Behavior of Paper	Tappi J., vol 62, no 8, pp 111-114, Aug 1979				magazine	TAPPI						
5494		material;poisson_ratio;measurement	01-Aug-82	2	Uesaka, Tetsu and Murakami, Koji and Imamura, Rikizo	On the Poisson Ratio of Paper and its Experimental Determination	Tappi J., vol 65, no 8, pp 115-116, Aug 1982	2			magazine	TAPPI	Empire State Paper	PoissonRatioExperiment	MaterialScan	doc and pdf	30-Dec-09	
5552		moisture;humidity;strength		20	uknown	Moisture and Paper	unknown	2			uknown	uknown	unknown	MoisturePaper	MoistureScan	doc and pdf	16-Sep-09	
2307		perf	01-Sep-96	2	Ulvila, Richard	Perforating Tear-Resistant Materials Takes a Big Step	Paper Film Foil Converter, vol 70, no 9, pp 50-51, September 1996				magazine	Paper Film Foil Converter						
2306		density;machine;recording;instrument;tension;control;winder	30-Nov-67		Ul'yanov, V.I.	Tensometric Apparatus for the Control of Web Winding	USSR Patent #249,929, issued Nov. 30, 1967				patent							
2308		wind;model	01-Jan-78	14	Umanskii, E.S. and Kryuchkov, V.V. and Rakovskii, V.A.	Determination of the Stressed State of a Coil of Magnetic Tape	Strength of Materials, vol 10, no 3, pp 322-335, 1978											
2309		roll;length;measurement	01-Nov-68		Unger, E.W.	Contribution to the Slip-Free Length Measurements of Paper Webs	Zellstoff Papier , vol 17, no 11, pp 331-336											

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2310		yankee_dryer;roller;hydrostatic;pressure;test;fem	01-Sep-95	4	Unneberg, Bengt	Hydrostatic Testing of Yankee Dryers	Tappi J., vol 78, no 9, pp 97-100, September 1995	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4741&DID=514165	The hydrostatic pressure testing of a Yankee dryer is performed as a fitness-for-service test made before delivery of the Yankee. In some countries, there are also statutory requirements for on-site hydrostatic testing	magazine	TAPPI						
2311		zd;air;flutter;textile	01-Apr-73	7	Uno, Minoru	Fluttering of Flexible Bodies	J. of the Textile Machinery Society of Japan, vol 14, no 4, pp 103-109, 1973				magazine							
2312	o	wind;two_drum;roll_structure;newsprint;	16-Mar-87	5	Uotinen, Jaakko and Oinonen, Hannu	Factors Involved in Winding Large Diameter Newsprint Rolls	Winding Technology Conf. Proc., Swedish Newsprint Research Center (TFL), Stockholm, Mar 16-171986				conference	STFL						
5951	o	curl;lamination;tension	18-May-10	1	Updike, Robert	Strain Matching and Practical Process Considerations for Masking Film Lamination	Applied Web Handling Conf, AIMCAL AWEB, Rochester, May 17-20	2	http://www.aimcal.org/association/aweb10/abstracts.asp?RECORD_KEY=filename&filename=Updike	it is important to match the strain of the masking film with the strain of the product web it is being applied to. This is often difficult to do in practice	conference	AIMCAL	Optimation	AWEB/AWEB10	AWEB2010	pdf	04-Jun-10	
2313		roll;handling	01-Jan-90		Urban, Michael	Modern Handling Techniques for Transporting Rolls of Paper	Tappi J., vol 73, no 1, Jan 1990				magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2314	o	roll;handling	06-Oct-91	6	Urban, Michael	AGVS Permit Movements of Full Reels to Distant Finishing Operations	TAPPI Finishing and Converting Conf. Proc., Houston, pp 43-48, Oct 6-10 1991	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5678&DID=516371	Steerable, self-propelled, battery powered automatic vehicles capable of carrying up to 50 t have emerged as a compliment to existing handling techniques, such as cranes and transfer cars.	conference	TAPPI						
2315		roll;handling;automation	01-Jul-92		Urban, Michael	AGV's Permits Movements of Full Reels of Paper to Distant Finishing Operations	Tappi J., vol 75, no 7, Jul 1992				magazine	TAPPI						
2685		roll;handling	01-Feb-00	3	Urban, Michael	Tissue Roll Handling with an AGVS	Tappi J., vol 83, no 2, February 2000	3	http://www.tappi.org/s_tappi/secpublications.asp?CID=4774&DID=518978	permits controlled movements of tissue rolls from the paper machines to the stor-age and converting lines. At the exit end of the paper machine, a discharge device cradles the rolls in wide, smooth fingers	magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2316		biaxial;tensile;test	01-Mar-96		Urruty, Jean-Philippe and Huchon, Regnier and Pouyet, Jean	Development of a Biaxial tensile testing machine and a nondisturbing displacement measurement method	Tappi J., vol 79, no 3, pp 283, March 1996.	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4757&DID=518794	Two servohydraulic actuators, controlling each other independently, impose a tensile stress on a cruciform flat specimen in two perpendicular directions	magazine	TAPPI						
2317		print;view;scan	01-Sep-97	2	Utschig, Steve	What are my optionsfor web viewing	Converting Magazine, pp 28 & 30, September 1997				magazine	Converting Magazine						
2553		print;guide	01-Mar-99	1	Utschig, Steve	What are the components of an edge guide system and how are the set on a press	Converting Magazine, vol 17, no 3, pp 48, March 1999				magazine	Converting Magazine						
2792		safety;printing_press	01-Mar-01	1	Utschig, Steve	What are the safety guidelines to follow around the printing press?	Converting Magazine, vol 19, no 3, pp 42, March 2001				magazine							
2954		corona_treat;print;bond	01-Aug-02	1	Utschig, Steve	Why is corona treating necessary in the flexo process?	Converting Magazine, vol 20, no 8, pp 28, Augu 2002	3	http://www.convertingmagazine.com/article/311440-Why_is_corona_treating_necessary_in_the_flexo_process_.php	These nonporous surfaces have low inherent surface energies, causing them to be non-receptive for bonding with printing inks, coatings and adhesives	magazine	Converting Magazine						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2318	o	wound_roll;label;std	15-Oct-95	8	Uyl, D.D.	Updated TAPPI Roll Number	TAPPI Finishing and Converting Conf. Proc., San Diego, CA, pp161-168, Oct 15-18, 1995	3	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5460&DID=521814	variations allowed in the present TAPPI roll number guideline. This paper addresses these issues and provides a revised roll number, the new version having a single uniform structure	conference	TAPPI						
2319		wind;nip;wound-in-stress	01-May-91		Vaidyanathan, Nandakumar	An Investigation of the Nip Induced Tension Mechanism Using Photoelasticity	OK. State Univ., WHRC, M.S. Thesis, May 1991					WHRC						
9944	o	crowned;roller;model	02-Jun-13	23	Vaijapurkar, S and Beisel, JA and Good, JK	The behavior of webs transitting crowned rollers	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	3			conference	WHRC	WHRC					
6052	o	lateral;guide;concave;roller;model	13-Jun-11	21	Vaijapurkar, S and Good, J Keith	Explicit Analysis of the Lateral Mechanics of Web Transiting Concave Rollers	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15	5			conference	WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2320	o	sheet;dimension	02-Oct-94	2	Valenta, R.	Dimensional Requirements for Squareness and Accuracy for Modern Sheetfed Presses	TAPPI Finishing and Converting Conf. Proc., Chicago, pp 105-106, October2-5, 1994	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5515&DID=522846	accuracy and squareness of sheets in providing quality printing will define issues such as “grain short”, “work and turn”, “work and tumble”, and “perfecting” printing	conference	TAPPI						
2321	o	sheeter	02-Oct-94	4	Valenta, R.	Right-Angle and In-Line Roll Sheeter	TAPPI Finishing and Converting Conf. Proc., Chicago, pp 107-110, October2-5, 1994	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5515&DID=522843	using a “roll sheeter” positioned inline to a sheet fed printing press. The design features describing the roll stand, decurling, cutting, and underlap delivery to the press’s feeder section	conference	TAPPI						
10052		air_bearing	08-Jun-14		van Dam, Teunis	Porous Air Bearing Techniques for Contactless Handling, Flattening and Stabilization of Webs	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014	4			conference	AIMCAL	IBS Precision Engineering					
2322		fiber;paper;structure;analytical;strain;failure;burster;propert	01-Mar-70	13	Van Den Akker, J.A.	Structure and Tensile Characteristics of Paper	Tappi J., vol 53, no 3, pp 388-400, Mar 1970				magazine	TAPPI						
2323	c	runnability;strength	01-Sep-67	5	Van Den Akker, J.A. and Wink, W.A. and Eperen, R.H.	Instrumentation Studies, Tearing Strength of Paper, Tearing Resistance by the In-Plane Mode of Tear	Tappi J., vol 50, no 9, pp 466-470, Sep 1967				magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5553		moisture;humidity;test;lab;strength;condition	01-Jul-86	4	Van Eperen, Roger H	Relative humidity and paper - The production and management of testing environments	Tappi J, pp 36-39, July 1986	3			magazine	TAPPI	Institute of Paper Chemistry	HumidityTestLabCondition	MoistureScan	doc and pdf	17-Sep-09	
2325		winding;slitter;bar-cod;inventory	06-Oct-80	5	Van Eyck, Michael J.	Finished Production Reporting Via Bar-Code Scanning	TAPPI Finishing and Converting Conf. Proc., 1980				conference	TAPPI						
2326			17-Oct-82	1	Van Eyck, Michael J.	Mill Experience with a Computerized Winder Deckling System	TAPPI Finishing and Converting Conf. Proc., 1982				conference	TAPPI						
2327		computer;auto-slitter;stocking;inventory	02-Mar-83		Van Eyck, Michael J.	Mill Experience With a Computerized Winder Deckling System	TAPPI Annual Mtg. (Atlanta) Proc., pp199					TAPPI						
2328		calender;nip;control	01-Jul-90		Van Haag, R.	The Development of the Loadcontrol System	Papier, Jul 1990				magazine							
2329	o		21-Sep-97	4	Van Hoof, D.P. and Reinhardt, M.L.	Considerations in Evaluating Regional Converting Services to Complement Mill Finishing and Logistics Strategies	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 1-4, September 21-24, 1997	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5326&DID=511918	regional distribution centers and outside converting arrangements are approaches that have helped mills meet these challenges. Establishing an outside converting program as a complementary extension of the mill's operation	conference	TAPPI						
5513		measure;ZD;modulus;creep;paper	01-Nov-74	4	Van Liew, Gary P.	The z Direction Deformation of Paper	Tappi J., vol 57, no 11, pp 121-124, Nov 1974	3			magazine	TAPPI	IPC	ZDdeformationPaper	MeasurementScan	doc and pdf	30-Dec-09	

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9805			10-Jun-12		van Loon, Sander	High Throughput for Coating Developments	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	VLCI					
2331		creep;property;textile	01-Jun-91		van Miltenburg, J.G.	Stress Relaxation and Tensile Modulus of Polymeric Fibers	Textile Research J., Jun 1991				magazine	Textile Research J						
2332		calender;soft	01-Apr-91		Van Zon, T.	Conventional or Soft Calendering	Newspaper Technology, Apr 1991											
2333	o	slitter;blade;metallurgy;life	04-Oct-98	6	Vanden Heuvel, Thomas R.	Cutting Tool Materials, Manufacturing Processes and Their Practical Effect on Sheeting and Slitting Quality	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 159-164, October 4-8, 1998	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5255&DID=509149	the need for better slit cuts to accommodate high technology, high speed printing, labelling and packaging equipment. Also the way we slit our product has become a large focus	conference	TAPPI						
3064	o	flutter;model	01-Jun-03	8	Vaughan, M.D. and Raman, A. (Purdue Univ)	Vibration and Stability of Axially Moving Webs Coupled to Surrounding Air	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC						
2334		tension;control;model	01-Aug-83	6	Veits, V. L. and Beilin, I. Sh. and Merkin, V. M.	Mathematical Models of an Elastic Strip in Mechanisms with Flexible Couplings	Soviet Applied Mechanics, vol 19, no 8, pp 721-726, August 1983											
2335			01-Aug-83	6	Veits, V.L.	Mathematical Models of an Elastic Strip in Mechanisms with Flexibility	Applied Soviet Mechanics, pp 721-726, Aug 1983											
2336		electric drive;control;tension	06-Oct-80	9	Veres, Richard P.	Electrical Variable Speed Drives and Their Energy Impact on the	TAPPI Finishing and Converting Conf. Proc., 1980				conference	TAPPI	Reliance (Rockwell)					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2337		wind;drive	01-Jan-91		Veres, Richard P.	Winder Drive Applications	Reliance Electric Report						Reliance (Rockwell)					
5781		wind;drive;tension;program	01-Mar-91	13	Veres, Richard P.	Winder Drive Applications	TAPPI Shortcourse notes, 1991	3			shortcourse	TAPPI	Reliance (Rockwell)	WindDrive ProgramReliance	WindGeneralScan	doc and pdf	06-Nov-09	legacy
2339	o	quality	01-Oct-89	4	Viavattine, J.M	Xerox's Perspective of Quality in the Finishing Area	TAPPI Finishing and Converting Conf. Proc., Kansas City MO, pp 135-138, Oct 1-5 1989				conference	TAPPI						
2340	o	tension;measure;acoustic	01-May-92	326	Vickery, Curtis M.	Use of Pneumatic Pulse Stimulus for Inducement of Large Amplitude Flexural Waveforms in Web Materials for the Purpose of Local Tension Measurement	Ph.D. Thesis, Web Handling Research Center at Oklahoma State Univ., May 1992				thesis	WHRC	WHRC					
2341	o	tension;profile;ultrasonic;measure	06-Jun-93	12	Vickery, Curtis M. and Lowery, Richarld L.	Measurement of Web Tension Distribution by Point Source Pulse Excitation	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC	WHRC					
2342		paper;curl;anisotropy;	01-May-94	5	Viitaharju, Paivi H and Niskanen, K.J	Chiral Curl in Thin Papers	J. of Pulp and Paper Science, vol 20, no 5, May 1994				magazine	J Pulp and Paper Science						
2343		paper;dry;shrink;property	01-Aug-93	5	Viitaharju, Paivi H. and Niskanen, K. Kaarlo J.	Dried-in Shrinkage Profiles of Paper Webs	Tappi J., vol 76, no 8, pp 129-134, Aug 1993				magazine	TAPPI						
2344		load cell;tension	19-Jul-82	3	Viney, David	Measurement and Control of Web Tension in Papermaking	Paper, vol 198, no 1, pp 26 28 30				magazine	Paper						
2345	o	training	21-Sep-97	7	Vissers, James	Training and Education in an Existing Paper Mill Operation	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 99-106, September 21-24, 1997	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5326&DID=511798	check list to ensure that employees are properly trained before assuming the task. The paper will also include equipment and safety training	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3105		shear;slit;fem;model	01-Jan-01	100	Viswanathan, H.	Exploratory Investigation of Shear and Score Slitting using Fine Element Method and Edge Characterization of Slit Non-Woven Webs	MS Thesis, WHRC, Oklahoma State Univ, 2001				Thesis	WHRC						
3074	o	slitting;edge;quality;measure	01-Jun-03	8	Viswanathan, H. and Lu, H. (Ok State Univ)	Characterization of a Slit Edge Using Imagae Analysis	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC						
2346	o	emboss	18-Oct-92	8	Vivier, F.P.	Embossing Fine Papers, the Evolution from Basement or Back Room to Main-Floor Finishing and Converting	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 229-236, Oct 18-21 1992	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5630&DID=524437	grades or patterns. Other items that will be discussed include: backing roll construction, types of roll covering materials being used, proven run-in methods for a new filled roll, and how drive technology	conference	TAPPI						
2347				8	Voith, J.M.	The New Approach to Good Jumbo Rolls	Voith. The New Approach to Good Jumbo Rolls											
9789		coat;method;comparison;gravure;curtain	10-Jun-12		Vollpott, Jens	Comparison of Coating Techniques: Gravure Roll (contact) vs Curtain (Non-contact)	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Kroenert GmbH					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9842		coat;method;comparison;gravure;curtain	22-Oct-12		Vollpott, Jens	Comparison of Coating Techniques: Gravure Roll (contact) vs Curtain (Non-contact)	AIMCAL Web Coating Conference, Myrtle Beach, Oct 22-24, 2012			Applications systems with gravure rollers are today's standard at coating and laminating machines but the latest curtain coating technology becomes an interesting option for several applications as well.	conference	AIMCAL	Kroenert GmbH					
3723	o	roller;carbon_fiber	07-Jun-09	12	von Hulsen, Lurich	Static and Dynamic Properties of CFRP Rollers	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC						
5479		tension;load_cell;profile;paper	01-Jun-01	13	Vuorinen, S. and Parola, M.	Modelling the Tension of a Paper Web	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000	4			conference	WHRC	VIT Information Tech	OnlineTensionProfileVuorinen	IWEB	doc and pdf	22-Nov-09	
3301	o	tension;control;model	05-Jun-05	10	Vuorinen, S. and Parola, M.	Modeling the Behavior of the Paper Web in Printing Presses	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC	VIT Information Tech					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2348	o	cd;control;coat	06-Oct-91	6	Vyse, R.N.	Developments in Cross Direction Coat Weight Control	TAPPI Finishing and Converting Conf. Proc., Houston, pp 205-210, Oct 6-10 1991	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5678&DID=516357	induction heating devices on a calender stack before the coater to control base stock smoothness, caliper and coat weight pickup is discussed as an example of an indirect CD control techniques	conference	TAPPI						
2349		dry;paper;shrink	01-Jan-91		Wadhams, K.R.	The Measurement of Differential CD Shrinkage	Paper Technology, Jan 1991				magazine	Paper Technology						
2350		calender;dust;lint	01-Nov-90		Waech, Theodore G	Lint Reduction by High Temperature Calendering	International Printing and Graphic Arts Conf. Proc., Nov 1990						Beloit					
2698		MD;wrinkle;flute;print;coat	01-Apr-00	4	Waech, Theodore G and Sze, Daniel H.	Predicting the fluting tendency of lightweight coated paper	Tappi J, vol 83, no 4, pp 84, April 2000.	4	http://www.tappi.org/s_tappi/secpublications.asp?CID=4836&DID=518976	Fluting is a machine-direction waviness occurring in lightweight coated papers during a web heatset offset printing process. The web develops waves (or flutes) of about 1 cm wavelength due to the unsupported, high-temperature, moist web	magazine	TAPPI	Beloit					
3403	o	winder;optimization	07-May-06	1	Wager, David	An example of process optimization - shear slitting polyester films	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Dupont					

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2351	o	calender	21-Sep-97	6	Wagner, U.	A New Calender Concept for the Next Century	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 111-116, September 21-24, 1997	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5326&DID=511913	calender during the eighties, calendering technology has not significantly changed. The line loads and temperatures have increased, but the principle configuration of one or two nips per side still remains unchanged	conference	TAPPI						
2352		tension;control;model	01-Oct-80		Wahlstrom, B. and Juusela, A. and Ollus, M. and et al	A distributed Control System and Its Application to a Board Mill	Proc. IFAC/IFIP Conf. on Digital Computer Applications to Process Control, Dusseldorf, October 1980											
2353		calender;bar	01-Apr-64		Wahlstrom, P.B. and Larsson, K.O.	Calender Barring, its Mechanism and Possible Elimination	Pulp and Paper Mag Canada, vol 64, no 4, p T205, April 1963				magazine	Pulp and Paper Canada						
2354		steam;dry;heat_transfer;siphon	01-May-64	8	Wahlstrom, P.B. and Larsson, K.O.	Factors Determining Condensate Removal	Pulp and Paper Magazine of Canada, vol 65, no 5, pp T203-T210, May 1964				magazine	Pulp and Paper Canada						
2355		flutter	31-Jan-89		Wahren, D.	Stability of Webs in Open Draws	CPPA Conf. Proc., Montreal, Jan 31 1989				conference	CPPA						
2356		measure;instrument;control	15-Jul-83	6	Walbaum, H. Heinz and Lisnyansky, Khaim	Review of Process Control Instruments for Measuring Paper Quality	Paper Trade J., pp 37-42, Jul 15 1983				magazine	Paper Trade J						
2357		measurement;paper;sensor;tension;optical;	15-Aug-83	7	Walbaum, H. Heinz and Lisnyansky, Khaim	Review of Process Control Instruments for Measuring Paper Quality	Paper Trade J., pp 34-40, Aug 15 1983				magazine	Paper Trade J						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2358	o	noise;sheet	07-Oct-90	8	Walde, P.	Noise Abatement in the Sheet Finishing Areas	TAPPI Finishing and Converting Conf. Proc., Lake Buena Vista FL, pp 209-216, Oct 7-10 1990	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5730&DID=515337	dilemma of noise vs. productivity Improvements in existing designs and the application of new technologies have resulted in substantial increases in the efficiency of paper and board finishing installations during the last few years	conference	TAPPI						
10022		laser;slit;perf;die-cut	01-Jan-14	5	Walker, Chris	Laser finishing on a rotary converting platform	Converting Quarterly, qtr 1, 2014	4			magazine	AIMCAL	Preco					
2359		history;forecast;quality;production	12-Mar-79	4	Walker, Donald E.	Winding--Where We Are Today	TAPPI Finishing and Converting Conf. Proc., pp 211-214, 1979				conference	TAPPI						
6062		wrinkling;spreading	06-Apr-11		Walker, Timothy	A Video Guide to Web Wrinkling and Spreading	ICE USA 2011 Tech Program	3			conference	ICE AIMCAL	self					
6055	o	wrinkling;spreading	13-Jun-11	19	Walker, Timothy and Cole, Kevin	Wrinkling and Spreading in Wide Webs	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15	5			conference	WHRC	self, Optimation					
6053	o	wrinkling;foil	13-Jun-11	13	Walker, Timothy and Cole, Kevin and Zagar, Steve	Wrinkling of Foils	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15	5			conference	WHRC	self, Optimation, Megtec					

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5952	o	wrinkling;nip;roller;misalign	18-May-10	1	Walker, Timothy J	Wrinkling at Nip Rollers	Applied Web Handling Conf, AIMCAL AWEB, Rochester, May 17-20	5	http://www.aimcal.org/association/aweb10/abstracts.asp?RECORD_KEY=filename&filename=walker1	review experimental methods and results to measure nip-related wrinkles from uneven nip loads and web bagginess as a function of pre-nip entering span length, web tension, pre-nip wrap angle, nipping roller properties, and nip load level and uniformity	conference	AIMCAL	self	AWEB/AWEB10	AWEB2010	pdf	04-Jun-10	
5957	o	wrinkle;misalign;spread;measure	18-May-10	1	Walker, Timothy J	Wrinkling and Spreading of Wide Webs	Applied Web Handling Conf, AIMCAL AWEB, Rochester, May 17-20	5	http://www.aimcal.org/association/aweb10/abstracts.asp?RECORD_KEY=filename&filename=walker2	Though wrinkles created by misalignment and web bending (shear wrinkles) are well-understood, nearly all the published research and modeling has been based on narrow web experiments	conference	AIMCAL	self	AWEB/AWEB10	AWEB2010	pdf	04-Jun-10	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9855		roller;align;foil;wrinkle	14-Jun-12		Walker, Timothy J	Wrinkling of Foils	AIMCAL Web Handling Conference, Prague, Jun 14-15, 2012	5		experimental results comparing when foil wrinkle vs. papers and films and discuss some of the key points to successful foil handling, especially how foils differ from papers and films	conference	AIMCAL	self				27-Jul-12	
9863		wind;roll;pressure;measure	14-Jun-12		Walker, Timothy J	Wireless Monitoring of Winding Roll Pressures	AIMCAL Web Handling Conference, Prague, Jun 14-15, 2012	5		method to measure how stresses build up within a winding roll by monitoring internal roll pressure using thin resistance-based pressure sensors and wireless data collection	conference	AIMCAL	self				27-Jul-12	
9872		roller;align;foil;wrinkle	22-Oct-12		Walker, Timothy J	Wrinkling of Foils	AIMCAL Web Handling Conference, Myrtle Beach, Oct 22-23, 2012	5		experimental results comparing when foil wrinkle vs. papers and films and discuss some of the key points to successful foil handling, especially how foils differ from papers and films	conference	AIMCAL	self				27-Jul-12	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9883		wind;roll;pressure;measure	22-Oct-12		Walker, Timothy J	Wireless Monitoring of Winding Roll Pressures	AIMCAL Web Handling Conference, Myrtle Beach, Oct 22-23, 2012	5		method to measure how stresses build up within a winding roll by monitoring internal roll pressure using thin resistance-based pressure sensors and wireless data collection	conference	AIMCAL	self				27-Jul-12	
9956	o	web_handling;diagnosis;troubleshoot	02-Jun-13	18	Walker, Timothy J	Machine and transverse direction errors in webs: diagnosis and remedies	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	4			conference	WHRC	self					
14112	o	wind	07-Jun-15		Walker, Timothy J	Winding Process Calibration and Comparison	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	self					
14110	o	wind;defect;tin-cann	07-Jun-15		Walker, Timothy J and Cole, Kevin A.	Tin-Canning Defects in Thin Film Winding	13th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2015				conference	WHRC	self					
5965		wrinkle;alignment;roller;spreader	17-May-10	50	Walker, Timothy J and Jones, Dilwyn and Roisum, David R	A practical Approach to Eliminate Web Wrinkling	AWEB10 Short Course, Rochester NY, May 17, 2010	5		wrinkling and spreading workshop	shortcourse	AIMCAL	self	WrinkleSpreadAWEB10	WebSchools	doc and pdf	06-Jun-10	

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9953	o	wind;pressure; measure	02-Jun-13	14	Walker, Timothy J and Updike, Robert C	Wireless monitoring of internal roll pressures	12th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 2-5, 2013	4			conference	WHRC	self, Optimation					
2894	o	tension;control	22-Oct-01		Walker, Timothy J.	Tension Controls	AIMCAL Fall Tech Conf, Oct 22-24, 2001					AIMCAL	Self					
2932		web_handling	01-Feb-02	1	Walker, Timothy J.	Web Line Knowledge Offers a Competitive Advantage	Paper, Film & Foil Converter, vol 76, no 2, pp 22, February, 2002	2	http://pffc-online.com/web_lines/paper_web_line_knowledge/	The primary motive for increased web line knowledge is defect prevention. The four main defect areas are abrasion, wrinkling, deformation, and breakage.	magazine	Paper Film Foil Converter	Self					
2934		winding;roll_structure	01-Mar-02	1	Walker, Timothy J.	Pyramids and Wound Rolls: Long-Lasting Quality	Paper, Film & Foil Converter, vol 76, no 3, pp 24, March, 2002	2	http://pffc-online.com/web_lines/paper_pyramids_wound_rolls/	In winding rolls we also create impressive performance through structure. Wound rolls are a package to store web materials and maintain quality between accumulating and dispensing.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2940		tension_zone	01-Apr-02	1	Walker, Timothy J.	Mapping Your Way to Better Tension Control	Paper, Film & Foil Converter, vol 76, no 4, pp 26, April, 2002	3	http://pffc-online.com/web_lines/paper_mapping_better_tension/	To map a line's tension control, we will create two documents: a tension control device diagram and a tension zone table. Start with a web line elevation drawing	magazine	Paper Film Foil Converter	Self					
2945		tracking;guiding;winding	01-May-02	1	Walker, Timothy J.	Strand Tracking Problems on Your Slitter Rewinder	Paper, Film & Foil Converter, vol 76, no 5, pp 24, May, 2002	3	http://pffc-online.com/web_lines/paper_strand_tracking_problems/	Divide the web into strands (slitting); and create uniform individual rolls (winding). This plan has three potential pitfalls: bad slitting, bad winding, and bad strand tracking	magazine	Paper Film Foil Converter	Self					
5875		guide;registration;stripe_slitting	01-Jun-02	1	Walker, Timothy J.	Stripe Slitting: The Challenge of Staying within the Lines	Paper, Film & Foil Converter, vol 76, no 8, pp 20, July 2002	3	http://pffc-online.com/web_lines/paper_stripe_slitting_challenge/	Slitting a homogenous wide material into narrower rolls is relatively easy. However, slitting material with lines or stripes, where the stripe-to-slit edge dimensions are critical	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5874		converting;web_handling;expert;management	01-Jul-02	1	Walker, Timothy J.	Outsourcing Is Trendy, But Is It Right for Process Expertise?	Paper, Film & Foil Converter, vol 76, no 8, pp 20, July 2002	2	http://pffc-online.com/web_lines/paper_outsourcing_trendy_right/	you need to know about web handling and converting technology. As your company formulates a business strategy, consider the degree converting technology is critical to your competitive position.	magazine	Paper Film Foil Converter	Self					
2956		traction;wrinkles;design	01-Aug-02	1	Walker, Timothy J.	Goldilocks and the Three Bears Deal with Traction Problems	Paper, Film & Foil Converter, vol 76, no 8, pp 20, August 2002	3	http://pffc-online.com/web_lines/paper_goldilocks_three_bears/	To be able to position the web, we need to “get a grip,” creating the frictional force between the web and each roller. How much grip or traction do we need?	magazine	Paper Film Foil Converter	Self					
2968		tension;load_cell;measure	01-Sep-02	1	Walker, Timothy J.	Well Done Tension	Paper, Film & Foil Converter, vol 76, no 9, pp 16, September 2002	2	http://pffc-online.com/web_lines/paper_done_tension/	I think tension-measuring rollers should be used in all web line tension zones. Tension measurement provides continuous readout of the web's running tension.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2961		wrinkles	09-Sep-02		Walker, Timothy J.	Web Wrinkles: Diagnosis and Remedies	TAPPI PLACE Conf. Proc., Boston, Sept 9-12, 2002	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5090&DID=510930	understand their mechanisms and sources. Wrinkles are visible defects, providing clues to their underlying mechanism via their location, shape, and direction. This paper will present a summary of wrinkle sources	conference	TAPPI	Self					
2992		air_entrainment;traction;wrinkles	01-Oct-02	1	Walker, Timothy J.	Five Questions and Answers on Lubrication	Paper, Film & Foil Converter, vol 76, no 10, pp 26, October 2002	3	http://pffc-online.com/web_lines/paper_five_questions_answers/	Air lubrication is used intentionally to prevent web contact on air turns. However, unintended air lubrication on rollers and in the winding roll may be a bad thing	magazine	Paper Film Foil Converter	Self					
2984	o	slit;strip;guide;width;registration;tolerances	21-Oct-02		Walker, Timothy J.	Stripe Slitting: Unwind to Rewind Lateral Registration	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5782		wind;differential;lock-bar;slip-core	02-Nov-02	1	Walker, Timothy J.	Differential Rewinding: Part One	Paper, Film & Foil Converter, vol 76, no 11, pp 22, November 2002	3	http://pffc-online.com/web_lines/paper_differential_rewinding_part/	The simplest approach is to wind ten rolls abutted side by side on a single shaft. Winding rolls on a common shaft without roll-to-roll separation usually leads to shuffling, where adjacent winding rolls interleave with each other.	magazine	Paper Film Foil Converter	Self	Differential Winding1	WindGeneralScan	doc and pdf	07-Nov-09	
3000	o	differential;slip_core;winding	01-Dec-02	1	Walker, Timothy J.	Differential Rewinding: Part Two	Paper, Film & Foil Converter, vol 76, no 12, pp 18, Decemberf 2002	3	http://pffc-online.com/web_lines/paper_differential_rewinding_part_2/	Differential shafts can be divided into two categories, axially or radially loaded, depending on the direction of the clutching action.	magazine	Paper Film Foil Converter	Self					
5783		wind;differential;lock-bar;slip-core	01-Jan-03	1	Walker, Timothy J.	Differential Rewinding: Part Three	Paper, Film & Foil Converter, vol 77, no 1, pp 21, January 2003	3	http://pffc-online.com/web_lines/paper_differential_rewinding_part_3/	The last two columns reviewed the whys and hows of differential rewinding, but before filling your prescription for two new differential shafts, let's review potential detrimental side effects.	magazine	Paper Film Foil Converter	Self	Differential Winding3	WindGeneralScan	doc and pdf	07-Nov-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3008	o	cinch;interlayer_slip;telescope;wind;unwind	01-Feb-03	1	Walker, Timothy J.	Cinching - BeltTIghtening Gone Bad: Part One	Paper, Film & Foil Converter, vol 77, no 2, pp 24, February 2003	3	http://pffc-online.com/web_lines/paper_cinching_belt_tightening/	Cinching is used to describe the relative motion of two layers around a curved surface like the motion used to tighten a belt before buckling it. In winding, cinching is any tightening or loosening motion of outer roll layers relative to inner roll layers	magazine	Paper Film Foil Converter	Self					
3010		cinch;interlayer_slip;telescope;wind;unwind	01-Mar-03	1	Walker, Timothy J.	Cinching - BeltTIghtening Gone Bad: Part Two	Paper, Film & Foil Converter, vol 77, no 3, pp 20, March 2003	3	http://pffc-online.com/web_lines/paper_cinching_belt_tightening_2/	How do you know if your product is cinching? At unwinding, draw a spoke line from the core to the outside of the roll. Apply the tension and start unwinding. If the line remains in the spoke direction, the layers are not slipping	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3015		web;damage;scratch, coating, rough	01-Apr-03	1	Walker, Timothy J.	Can't Touch This [Web]: Part 1	Paper, Film & Foil Converter, vol 77, no 4, pp 34, April 2003	3	http://pffc-online.com/web_lines/paper_cant_touch_web/	When facing “no touch” challenges, start by understanding the most common reasons “U can't touch this.” “Wet Paint” — Topping the charts of “no-contact” webs	magazine	Paper Film Foil Converter	Self					
3037	o	laminating;nip;curl;tension;roller	13-Apr-03	5	Walker, Timothy J.	Laminating - Keys to Laminating Success	CEMA Coating and Laminating Seminar, Chicago, April 15, 2003				shortcourse	CEMA	Self					
3055		web;damage;scratch, air_flot	01-May-03	1	Walker, Timothy J.	Can't Touch This [Web]: Part 2	Paper, Film & Foil Converter, vol 77, no 5, pp 20, May 2003	3	http://pffc-online.com/web_lines/paper_cant_touch_web_2/	But how long can we keep this up? The answer can t be calculated from a simple equation, but all long spans — whether vertical or horizontal — have practical limits.	magazine	Paper Film Foil Converter	Self					
3078	o	idler;roller;drag;tension;bearing	01-Jun-03	8	Walker, Timothy J.	Practical Application of Idler Roller Performance Measurements and Models	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3116		web;damage;scratch, air_flot	01-Jun-03	1	Walker, Timothy J.	Can't Touch This [Web]: Part 3	Paper, Film & Foil Converter, vol 77, no 6, pp 26, June 2003	3	http://pffc-online.com/web_lines/paper_cant_touch_web_3/	One-sided web handling is like holding buttered toast or a DVD — touching one side is no problem, but touching the other side may cause a big mess or damage.	magazine	Paper Film Foil Converter	Self					
5784		wind;application;design;nip;tension	01-Jun-03	4	Walker, Timothy J.	Winding Better Rolls	Paper, Film & Foil Converter, vol 77, no 6, pp 66-70, June 2003	4	http://pffc-online.com/technical_reports/paper_winding_better_rolls/	One key to quality wound rolls is the winding nip. The winding nip is a roller, driven or idling, that remains in contact with the winding roll throughout its buildup	magazine	Paper Film Foil Converter	Self	WindingBetterRollsWalker	WindGeneralScan	doc and pdf	07-Nov-09	
3120		roller;traction;slip;scratch	01-Jul-03	1	Walker, Timothy J.	A Slippery Answer to Web Scratching	Paper, Film & Foil Converter, vol 77, no 7, pp 22, July 2003	3	http://pffc-online.com/web_lines/paper_slippery_answer_web/	What percent slippage in idler roller speed relative to web speed is required to create scratches? Answer #1: Zero percent slip	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3130		tracking;alignment	01-Aug-03	1	Walker, Timothy J.	Going With The Parallel Flow	Paper, Film & Foil Converter, vol 77, no 8, pp 20, Aug 2003	2	http://pffc-online.com/web_lines/paper_going_parallel_flow/	In tracking a web through a web line, if we keep the web parallel to the machine centerline, things go smoothly. If there is a small error in the angle of a roller relative to the web angle	magazine	Paper Film Foil Converter	Self					
3133		wind;differential;tension;control	01-Sep-03	5	Walker, Timothy J.	Paying Attention to Tension	Paper, Film & Foil Converter, vol 77, no 9, pp 102-109, Sept 2003	4	http://pffc-online.com/technical_reports/paper_pay_attention_tension/	Slitter/rewinders are the workhorses of the converting industry, rarely getting the same level of attention as their more exciting cousins: coating, extruding, and laminating equipment.	magazine	Paper Film Foil Converter	Self					
3132		tracking;alignment;bending;guide;traction	01-Sep-03	1	Walker, Timothy J.	The Long and the Short of Web Bending	Paper, Film & Foil Converter, vol 77, no 9, pp 26, Sept 2003	3	http://pffc-online.com/mag/paper_long_short_web/	This month I want to expand your understanding of the parallel entry principle, explaining where the force to bend the web comes from and how to use this knowledge to your advantage.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3134		spread, bowed_roll, expander	01-Oct-03	1	Walker, Timothy J.	Where Does a Spreader Spread?	Paper, Film & Foil Converter, vol 77, no 10, pp 22, Oct 2003	3	http://pffc-online.com/web_lines/paper_spreader_spread/	let's dissect the commonly misunderstood mechanism and limitations behind two popular spreader rolls: the bowed roller and the expanding-surface roller.	magazine	Paper Film Foil Converter	Self					
3145	o	roller;bearing;friction;traction;slip	26-Oct-03		Walker, Timothy J.	Idler Roller Performance Measurements and Models	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003					AIMCAL	Self					
3150	o	lamination	26-Oct-03		Walker, Timothy J.	Lamination - Keys to Laminating Success	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003					AIMCAL	Self					
5670		spread;compliant_cover;flex	01-Nov-03	1	Walker, Timothy J.	Small Flexing, Big Benefits	Paper, Film & Foil Converter, vol 77, no 11, pp 22, November 2003	3	http://pffc-online.com/web_lines/paper_small_flexing_big/	The rotating spirals, starting at the roller center, create a sense of outward motion. As the spiral turns relative to your fixed perspective, you almost can feel the plowing action. Don't be conned by this illusion.	magazine	Paper, Film & Foil Converter	Self	SmallFlexBigBenefit	SpreadWrinkleScan	doc and pdf	26-Dec-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3168		stress;tension;pressure	01-Dec-03	1	Walker, Timothy J.	Linebackers, Leashes, & Superman: A look at Stress	Paper, Film & Foil Converter, vol 77, no 12, pp 22, December 2003	2	http://pffc-online.com/web_lines/paper_linebackers_leashes_superman/	Pressures and stresses, whether 10 or 10,000 psi, are not an intuitive variable to most people.	magazine	Paper Film Foil Converter	Self					
3171		friction;traction;drive;wrinkling	01-Jan-04	1	Walker, Timothy J.	Friction Circles on a Winter's Day	Paper, Film & Foil Converter, vol 78, no 1, pp 22, January 2004	3	http://pffc-online.com/web_lines/paper_friction_circles_winters/	The friction circle applies any time you are trying to use web-to-roller (or web-to-web) traction in the machine and transverse directions at the same time.	magazine	Paper Film Foil Converter	Self					
3174		nip;defect;design;wrinkle	01-Feb-04	1	Walker, Timothy J.	Reduce Web Nip Problems	Paper, Film & Foil Converter, vol 78, no 2, pp 22, February 2004	3	http://pffc-online.com/web_lines/paper_reduce_web_nip/	Nips are intended to pressure and pull a web. The source of most nip-web problems is cross-web variations in either the nip or the web. Process nips are used to meter material uniformity.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3176		force_gage;measure;dancer;roller, friction;roll interlayer_pressure	01-Mar-04	1	Walker, Timothy J.	Fun with Force Gages	Paper, Film & Foil Converter, vol 78, no 3, pp 26, March 2004	3	http://pffc-online.com/web_lines/paper_fun_force_gauges/	In today's world of high-tech electronic gadgets, a force gauge may seem unglamorous, but I hope to convince you a force gauge is something you should have and use	magazine	Paper Film Foil Converter	Self					
3180		roller;align;wrinkle;tension	01-Apr-04	1	Walker, Timothy J.	When Rollers Fight, Webs Lose	Paper, Film & Foil Converter, vol 78, no 4, pp 26, April 2004	3	http://pffc-online.com/mag/paper_rollers_fight_webs/	"If you want your web line to stay on track, keep your rollers and equipment sections parallel. If sequential rollers are not parallel, the upstream and downstream rollers will fight each other."	magazine	Paper Film Foil Converter	Self					
3183		roller;align;wrinkle;tension	01-May-04	1	Walker, Timothy J.	Tracking Wrinkles: Part I	Paper, Film & Foil Converter, vol 78, no 5, pp 26, May 2004	1	http://pffc-online.com/web_lines/paper_tracking_wrinkles_part/	What makes a web move off track or shift lanes? This concept is crucial in understanding web behavior, both good and bad. I would like to be able to give you a short, simple statement to answer this question, but I can't.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3188		roller;align;wrinkle;tension	01-Jun-04	1	Walker, Timothy J.	Tracking Wrinkles: Part II	Paper, Film & Foil Converter, vol 78, no 6, pp 36, June 2004	2	http://pffc-online.com/web_lines/paper_tracking_wrinkles_part_2/	The easiest way to explain roller diameter variation tracking is to walk you through the chain of events.	magazine	Paper Film Foil Converter	Self					
3192		steering;guide;design;span;traction,wrinkle	01-Jul-04	1	Walker, Timothy J.	Steering Directions Made Simple	Paper, Film & Foil Converter, vol 78, no 7, pp 26, July 2004	3	http://pffc-online.com/mag/paper_steering_directions_made/	Steering guides appear simpler, since they are often a single actuating roller. Don't be fooled. Thinking a single-roller steering guide is simpler than a two-roller displacement guide is like thinking a unicycle is easier to ride than a bicycle.	magazine	Paper Film Foil Converter	Self					
3197		shear_wrinkle;align;guide	01-Aug-04	1	Walker, Timothy J.	The Signs of Shear Wrinkle	Paper, Film & Foil Converter, vol 78, no 8, pp 22, Aug 2004	2	http://pffc-online.com/web_lines/paper_signs_shear_wrinkle/	A trough is the buckled, out-of-plane web in a span between rollers. Troughs usually are spaced in wavelengths of 1-3 in. crossweb, running mostly in the machine direction but may be angled off 5-20 deg.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3224	o	winding	29-Aug-04		Walker, Timothy J.	Film Winding Systems and Applications	TAPPI PLACE Conf, Indianapolis, August 29, 2004				conference	TAPPI	Self					
3233		roller;diameter;shear;delamination	01-Sep-04	1	Walker, Timothy J.	Can this lamination be saved?	Paper, Film & Foil Converter, vol 78, no 8, pp 28, September 2004	3	http://pffc-online.com/web_lines/web_lines_delamination/	Delamination is the breakup of this marriage when outside forces exceed the ties that bind	magazine	Paper Film Foil Converter	Self					
3235		spreader;design	01-Oct-04	1	Walker, Timothy J.	10 Tips on Antiwrinkle Rollers	Paper, Film & Foil Converter, vol 78, no 10, pp 28, Oct 2004	3	http://pffc-online.com/web_lines/paper_tips_antiwrinkle_rollers/	Antiwrinkle rollers, like antiperspirants and anti-inflammatories, have a name that implies a cure to your problem.	magazine	Paper Film Foil Converter	Self					
3206	o	spread;expander;wrinkle	25-Oct-04	1	Walker, Timothy J.	Concave and expanding Surface Rollers: for Better or Worse	AIMCAL Fall Tech Conf, Charleston SC, Oct 24-27, 2004					AIMCAL	Self					
3263		slitting;dust;debris	01-Nov-04	1	Walker, Timothy J.	Slitting Debris: Cracking the Case	Paper, Film & Foil Converter, vol 78, no 11, pp 22, Nov 2004	2	http://pffc-online.com/web_lines/paper_slitting_debris_cracking/	Slitting debris comprises the small particles that break off a product's edge during the slitting process. It is created through fracture and abrasion.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3264		vibration, coating, tension	01-Dec-04	1	Walker, Timothy J.	The Harms of Harmony	Paper, Film & Foil Converter, vol 78, no 12, pp 22, December 2004	2	http://pffc-online.com/web_lines/paper_harms_harmony/	A harmonic is a wavelength or vibration. Web processes are filled with rotating elements. If any rotating element is out of balance or eccentric, it will create a one-per-revolution upset into the web motion or harmonic.	magazine	Paper Film Foil Converter	Self					
3269		film;wrinkle;wind	01-Jan-05	1	Walker, Timothy J.	Who Likes Film	Paper, Film & Foil Converter, vol 79, no 1, pp 26, January 2005	3	http://pffc-online.com/web_lines/who_likes_film_0105/	The first run of a thin film on a line designed for paper will be fraught with waste—waste from scratching, winding, and wrinkling. Yikes! Maybe process people don't like films	magazine	Paper Film Foil Converter	Self					
3272		tension	01-Feb-05	1	Walker, Timothy J.	Why Tension	Paper, Film & Foil Converter, vol 79, no 2, pp 22, February 2005	2	http://pffc-online.com/web_lines/why_tension_0205/	Why tension the web? It's mostly a matter of control.	magazine	Paper Film Foil Converter	Self					
3275		curl;wind;laminate;strain	01-Mar-05	1	Walker, Timothy J.	Get out of the Scroll Business	Paper, Film & Foil Converter, vol 79, no 3, pp 34, March 2005	3	http://pffc-online.com/web_lines/scroll_business_0305/	How do webs end up curly? Let's go over the top causes and consider how to eliminate them.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3278		clean;debris;dust	01-Apr-05	1	Walker, Timothy J.	Clean Thinking	Paper, Film & Foil Converter, vol 79, no 4, pp 36, April 2005	3	http://pffc-online.com/web_lines/clean_thinking_0405/	Cleanliness could be defined by particle size and frequency per area, but more often it is defined by product performance. A debris particle leaves an unsatisfied customer when it becomes a visible dimple, a coating streak, or a laminate bubble	magazine	Paper Film Foil Converter	Self					
3282		draw;tension;control	01-May-05	1	Walker, Timothy J.	Drawing Conclusions: Part I	Paper, Film & Foil Converter, vol 79, no 5, pp 22, May 2005	3	http://pffc-online.com/web_lines/drawing_conclusions_0505/	Draw control is simple. Any time you drive the web with two or more rollers, you have draw. Each driven roller can have its own motor or share a motor using a timing belt, chain, or line shaft	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3325		draw;tension;control	01-Jun-05	1	Walker, Timothy J.	Drawing Conclusions: Part II	Paper, Film & Foil Converter, vol 79, no 6, pp 30, June 2005	4	http://pffc-online.com/web_lines/drawing_conclusions_0605_2/	three data points: the web speed at roller #1, the web speed at roller #2, and the strain of the web at roller #1. This info is enough to determine the system's eventual steady-state condition, but without knowing the initial strain in the draw zone	magazine	Paper Film Foil Converter	Self					
5873		spreader;concave	01-Jul-05	1	Walker, Timothy J.	Concave Rollers Pros & Cons	Paper, Film & Foil Converter, vol 79, no 10, pp 30, Jul 2005	3	http://pffc-online.com/web_lines/concave_rollers_pros_cons_0705/	Depending on the exact diameter profile, concave rollers may have an hourglass, bowtie, dumbbell, or parabolic profile. The mechanism:	magazine	Paper Film Foil Converter	Self					
3330		unwind;design	01-Aug-05	1	Walker, Timothy J.	The Converting Relay Race: Part I	Paper, Film & Foil Converter, vol 79, no 8, pp 30, Aug 2005	3	http://pffc-online.com/web_lines/converting_relay_race_0805_1/	four unwinds: roll loading and support, web threading and splicing, web/roll alignment, and web speed and tension control.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3332		unwind;design	01-Sep-05	1	Walker, Timothy J.	The Converting Relay Race: Part II	Paper, Film & Foil Converter, vol 79, no 9, pp 28, Sept 2005	3	http://pffc-online.com/web_lines/converting_relay_race_0905_2/	Unwinds must be able to align the web, compensating for web position errors from unwind installation, web-to-core, core-to-chuck, and layer-to-layer within roll	magazine	Paper Film Foil Converter	Self					
5872		winder;automation;splicing	01-Oct-05	1	Walker, Timothy J.	The Case for Automatic Splicing	Paper, Film & Foil Converter, vol 79, no 10, pp 12, Oct 2008	3	http://pffc-online.com/web_lines/automatic_splicing_1005/	Dual or turret winders, with their ability to load a new roll while another is running, help reduce downtime.	magazine	Paper Film Foil Converter	Self					
3354		bow_roller;spread;design	01-Nov-05	1	Walker, Timothy J.	Converting Rx for Bowed Rollers	Paper, Film & Foil Converter, vol 79, no 11, pp 26, Nov 2005	3	http://pffc-online.com/web_lines/rx_bowed_rollers_1105/	bowed rollers, they are a uniform-diameter but bow-shaped roller. The outside of a bowed roller is a rubber sleeve, internally supported by a series of narrow idler rollers mounted on a bent shaft	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5671		spread;bowed_roller	01-Dec-05	1	Walker, Timothy J.	Converting Rx: Bowed Roller Dosage	Paper, Film & Foil Converter, vol 79, no 12, pp 20, Dec 2005	3	http://pffc-online.com/web_lines/rx_bowed_rollers_1205/	there are just five critical variables: bowed roller diameter, radius of curvature, the entry span length, wrap angle, and entry span angle relative to the bow plane	magazine	Paper Film Foil Converter	Self	BowedRollerDosage	SpreadWrinkleScan	doc and pdf	26-Dec-09	
3364		rewind;productivity;time_cycle	01-Jan-06	1	Walker, Timothy J.	Why Isn't Your Slitter Running	Paper, Film & Foil Converter, vol 80, no 1, pp 12, Jan 2006	4	http://pffc-online.com/web_lines/slitter_running_0106/	slitter operators. When the slitter stops, the operators go to work, cutting off and unloading the finished rolls, loading and starting the new cores. But the operators' work doesn't stop there; knife setups, unwind splicing, roll packaging, paperwork	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3363		strain;tension; alignment	01-Jan-06	2	Walker, Timothy J.	The Secret Strain	Paper, Film & Foil Converter, vol 80, no 1, pp 30-31, Jan 2006	2	http://pffc-online.com/mag/secret_strain_0106/	stretched, or compressed. Strain is the dimensional difference between the at-rest, unloaded material and the in-process, stressed web. Strain can be either positive or negative	magazine	Paper Film Foil Converter	Self					
5711		roller;troughness;traction;air_entrainment	01-Feb-06	1	Walker, Timothy J.	Are You Rough Enough?	Paper, Film & Foil Converter, vol 80, no 2, pp 12, Feb 2006	3	http://pffc-online.com/mag/rough_enough_0206/	What is the better roller surface to prevent web scratching, smooth or rough? Many people will opt for smooth, but in fact, this is the wrong direction	magazine	Paper Film Foil Converter	Self	AreYouRoughEnough	WebHandlingScan	doc and pdf	26-Dec-09	
3373		roller;traction;grooving;air_entrain	01-Mar-06	1	Walker, Timothy J.	If Not Rough, How About Groovy?	Paper, Film & Foil Converter, vol 80, no 3, pp 14, Mar 2006	3	http://pffc-online.com/web_lines/rough_groovy_0306/	So, how else can you fight an air or liquid lubrication beside simple roughening techniques?	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3434		nip;roller;deflection	01-Apr-06	1	Walker, Timothy J.	Deflecting Nip Roller Problems?	Paper, Film & Foil Converter, vol 80, no 4, pp 12, April 2006	3	http://pffc-online.com/web_lines/nip_roller_problems_0406/	Is this pressure nice and uniform across the web? Not likely. It would be if we had perfectly cylindrical rollers applying the same load over each inch of width, and the web was perfectly flat	magazine	Paper Film Foil Converter	Self					
3377		wind;pressure	01-May-06	1	Walker, Timothy J.	The Pressure of Winding Rolls	Paper, Film & Foil Converter, vol 80, no 5, pp 12, May 2006	3	http://pffc-online.com/web_lines/pressure_winding_rolls_0506/	Too much pressure inside a roll means more wound roll problems: Adhesive layers ooze, nonwoven and other crush-sensitive products	magazine	Paper Film Foil Converter	Self					
3411	o	wrinkle;diagnose	07-May-06	1	Walker, Timothy J.	The four mechanisms of web wrinkles	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Self					
3412		air_float	01-Jun-06	1	Walker, Timothy J.	Whatever floats your web	Paper, Film & Foil Converter, vol 80, no 6, pp 10, June 2006	3	http://pffc-online.com/web_lines/floats_your_web_0606/	float your web over a stationary plate or cylinder, you've got something simpler than a roller. But if floating your web requires a complex air flow control system	magazine	Paper Film Foil Converter	Self					
3415		wind;material_properties	01-Aug-06	1	Walker, Timothy J.	What Makes Winding Difficult	Paper, Film & Foil Converter, vol 80, no 8, pp 12, Aug 2006				magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3421		wind;material_properties;cof;buildup_ratio	01-Sep-06	1	Walker, Timothy J.	Difficult Winding Part II	Paper, Film & Foil Converter, vol 80, no 9, pp 14, Sept 2006	3	http://pffc-online.com/web_lines/paper_difficult_winding_part/	This month let's move on to the next two of winding's troublesome trio: roll buildup ratio and coefficient of friction (COF)	magazine	Paper Film Foil Converter	Self					
3435		tension;design;modulus	01-Oct-06	1	Walker, Timothy J.	Web Tension: a Pop Quiz	Paper, Film & Foil Converter, vol 80, no 10, pp 16, Oct 2006	3	http://pffc-online.com/web_lines/paper_web_tension_pop/	Today's column is a pop quiz on web tensioning.	magazine	Paper Film Foil Converter	Self					
3457		dancer;design;tension	01-Nov-06	1	Walker, Timothy J.	Dancer Rollers: Trust but verify	Paper, Film & Foil Converter, vol 80, no 11, pp 12, Nov 2006	3	http://pffc-online.com/web_lines/paper_dancer_rollers_trust/	dancer rollers don't tell you what the tension is or how much it varies. A dancer roller is not truly a tension feedback device.	magazine	Paper Film Foil Converter	Self					
3463		wind;design;select	01-Dec-06	1	Walker, Timothy J.	How to Drive a Winding Roll	Paper, Film & Foil Converter, vol 80, no 12, pp 10, December 2006	4	http://pffc-online.com/web_lines/paper_drive_winding_roll/	What is the best way to drive a winding roll? You have three choices: from the surface, from the center, or both.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3468		twist;alignment;roller;guide	01-Jan-07	1	Walker, Timothy J.	Twist and Shout	Paper, Film & Foil Converter, vol 81, no 1, pp 12, January 2007	3	http://pffc-online.com/web_lines/paper_twist_shout/	The two most common exceptions to our uniform tension plan are twists and bends. If a web twists or bends too much, it will “feel” excessively high shear, compressive or tensile stresses	magazine	Paper Film Foil Converter	Self					
3472		alignment;bending;web_break;wrinkle	01-Feb-07	1	Walker, Timothy J.	Don't Get Bent out of Shape	Paper, Film & Foil Converter, vol 81, no 1, pp 12, February 2007	3	http://pffc-online.com/web_lines/paper_dont_bent_shape/	Bending a web is like bending a pencil or a wire. A little bending is no problem, but if you go too far, something will get bent out of shape or break.	magazine	Paper Film Foil Converter	Self					
3478		rubber;roller;nip;pressure	01-Mar-07	1	Walker, Timothy J.	Under Pressure (Revisited)	Paper, Film & Foil Converter, vol 81, no 3, pp 12, March 2007				magazine	Paper Film Foil Converter	Self					
3480		baggy_web	01-Apr-07	1	Walker, Timothy J.	Baggy Webs: Part One - Nightmares	Paper, Film & Foil Converter, vol 81, no 4, pp 12, April 2007				magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3483		baggy_web;measure	01-May-07	1	Walker, Timothy J.	Baggy Webs: Part Two - Measuring	Paper, Film & Foil Converter, vol 81, no 5, pp 14, May 2007	2	http://pffc-online.com/mag/paper_baggy_webs_part_2/	Regarding baggy webs, what should you measure? Bagginess by itself isn't usually a problem until 1) you try to run the baggy web through a nip, or 2) it is so bad the web wrinkles or your laminates are curly on one side and flat on the other.	magazine	Paper Film Foil Converter	Self					
3489		nip;roller	01-Jun-07	1	Walker, Timothy J.	Under Pressure	Paper, Film & Foil Converter, vol 81, no 6, pp 12, June 2007	3	http://pffc-online.com/mag/paper_pressure_brighter_look/	For a fixed indentation or engagement, nip pressure is a direct function of rubber covering thickness but independent of roller diameter. If indentation is fixed, larger diameters don't change nip pressure	magazine	Paper Film Foil Converter	Self					
3513	o	concave_roller;spreader	10-Jun-07	8	Walker, Timothy J.	Practice and Application and Design of Concave Rollers	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3523		baggy;camber;caliper	01-Jul-07	1	Walker, Timothy J.	Baggy Webs: Part Three - Causes	Paper, Film & Foil Converter, vol 81, no 7, pp 12, July 2007	4	http://pffc-online.com/web_lines/paper_baggy_webs_part_3/	First, we need to find a way to fix it in the short term. Second, we can work on a long-term plan to prevent baggy webs from happening.	magazine	Paper Film Foil Converter	Self					
3525		baggy;camber;caliper	01-Aug-07	1	Walker, Timothy J.	Baggy Webs: Part Four Minimizing	Paper, Film & Foil Converter, vol 81, no 8, pp 12, Aug 2007	4	http://pffc-online.com/mag/paper_baggy_webs_part_4/	First, we would like to minimize the level of bagginess in our webs. Second, we would like to minimize the waste associated with running the inevitable baggy web in our processes	magazine	Paper Film Foil Converter	Self					
5444		web_handling;winding;seminar;school	06-Aug-07	144	Walker, Timothy J.	Web Handling and Converting	AIMCAL Sumer School, Aug 6-9, 2007	10			CourseNotes	AIMCAL	Self	WebHandlingWalkerSS07	BookScan	doc and pdf	23-Dec-09	
3537		roller;framework;align	01-Sep-07	1	Walker, Timothy J.	Support Your Rollers	Paper, Film & Foil Converter, vol 81, no 9, pp 12, Sept 2007	4	http://pffc-online.com/web_lines/paper_support_rollers/	How should a roller be supported or attached to your equipment? To answer this question, let's review your roller support needs and your options to meet these needs.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3539		tension;isolation;draw	01-Oct-07	1	Walker, Timothy J.	In Search of Tension Isolation	Paper, Film & Foil Converter, vol 81, no 10, pp 14, Oct 2007	4	http://pffc-online.com/web_lines/paper_search_tension_isolation/	It is the belief that two tension zones are independent of each other if the friction of the web on the “isolating” driven roller is greater than the tension differential between the two zones.	magazine	Paper Film Foil Converter	Self					
3541		differential_winding;slip_cores	01-Nov-07	1	Walker, Timothy J.	Differential Winding Limits: Part One	Paper, Film & Foil Converter, vol 81, no 11, pp 12, Novt 2007	4	http://pffc-online.com/web_lines/paper_differential_winding_limits/	Differential winding allows multiple rolls to turn at differing speeds, with each roll free to slip at the speed required to compensate for roll-to-roll diameter variations and strand-to-strand length variations	magazine	Paper Film Foil Converter	Self					
3542		differential_winding;slip_cores	01-Dec-07	1	Walker, Timothy J.	Differential Winding Limits: Part Two	Paper, Film & Foil Converter, vol 81, no 12, pp 12, Dec 2007	4	http://pffc-online.com/mag/paper_differential_winding_limits_2/	This month we cover more differential shaft limitations. My goal isn't to put down differential shafts but to avoid the frustration that occurs when delivered results don't meet expectations.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3546		traction	01-Jan-08	1	Walker, Timothy J.	Get a Grip: Driving your web	Paper, Film & Foil Converter, vol 82, no 1, pp 12, January 2008	3	http://pffc-online.com/web_handling/grip_driving_web_0101/	the subtle effect of web transport should not sway you from designing all driven rollers with traction sufficient to support your apparent or actual tension differential between tension zones	magazine	Paper Film Foil Converter	Self					
3548		equipment;buy	01-Feb-08	1	Walker, Timothy J.	Thinking about New Equipment?	Paper, Film & Foil Converter, vol 82, no 2, pp 12, Feb 2008	3	http://pffc-online.com/web_lines/thinking_new_equipment_0201/	I've seen many equipment designs that I don't like because they make a process more sensitive to web handling and winding defects. Here are some tips on what to consider when ordering new converting equipment	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3551		equipment;buy	01-Mar-08	1	Walker, Timothy J.	Buyers & Suppliers: Can We Dance	Paper, Film & Foil Converter, vol 82, no 3, pp 16, March 2008	3	http://pffc-online.com/web_handling/buyers-suppliers-0301/	Buying equipment is a partnership between the equipment buyers and equipment suppliers. The dance begins when a buyer has a need (and hopefully the money) for new equipment. Eventually a dance partner is found, and the two must find a way to work together	magazine	Paper Film Foil Converter	Self					
3553		guide	01-Apr-08	1	Walker, Timothy J.	Your Guide to the Right Web Guide	Paper, Film & Foil Converter, vol 82, no 4, pp 14, April 2008	3	http://pffc-online.com/web_handling/web_guiding/guide_right_web_0401/	There are three main points where guiding is needed:	magazine	Paper Film Foil Converter	Self					
3579		roller;scratching	01-May-08	1	Walker, Timothy J.	A Recipe for Scratching	Paper, Film & Foil Converter, vol 82, no 5, pp 12, May 2008	3	http://pffc-online.com/web_handling/recipe_scratching_0501/	There are five prerequisites to create a scratch or abrasive wear	magazine	Paper Film Foil Converter	Self					
3561	o	winder;time-cycle	06-May-08	1	Walker, Timothy J.	Why isn't Your Slitter Running?	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	Self					
3575	o	web_handling; roller;design;model	06-May-08	1	Walker, Timothy J.	Size Matters: The Effects of Roller Diameter	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5871		roller;bearing; design;mainte nance;drag	01-Jun-08	1	Walker, Timothy J.	The Spin on Idler Roller Testing	Paper, Film & Foil Converter, vol 82, no 6, pp 12, Jun 2008	4	http://pffc-online.com/web_lines/spin_idler_roller_0608/	If you have rollers where the available traction is marginal, such as extra-low tension, low wrap angle, low web-to-roller COF, or a reduced traction coefficient due to air lubrication	magazine	Paper Film Foil Converter	Self					
5870		roller;bearing; design;mainte nance;drag	01-Jul-08	1	Walker, Timothy J.	Idler Roller Bearings: Living the Good Long Life?	Paper, Film & Foil Converter, vol 82, no 7, pp 12, Jul 2008	4	http://pffc-online.com/web_lines/idler_roller_bearings_0708/	Most bearings are designed for a hard life, expecting to end up on a drive shaft of a high-speed motor with a heavy load. Some bearings, however, end up with a relatively cushy job	magazine	Paper Film Foil Converter	Self					
5869		winding;scienc e	01-Aug-08	1	Walker, Timothy J.	Winding: What We Know & What We Don't Know	Paper, Film & Foil Converter, vol 82, no 8, pp 12, Aug 2008	3	http://pffc-online.com/web_lines/winding_know_dont_0808/	Our understanding of winding can be broken into three areas: the winding process, winder design, and wound roll quality. For each of these three areas, there are some things that are well or generally understood.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5868		accumulator;splice	01-Sep-08	1	Walker, Timothy J.	A Wealth of Accumulators	Paper, Film & Foil Converter, vol 82, no 9, pp 12, Sept 2008	3	http://pffc-online.com/web_lines/wealth_accumulators_0908/	Most accumulators are found at either end of a web line, buffering between the main constant speed process, such as coating or printing, and the stop-start processes of splicing at the winders.	magazine	Paper Film Foil Converter	Self					
3676		speed;air_entrain;vibration	01-Oct-08	1	Walker, Timothy J.	Do You Have a Need for Speed?	Paper, Film & Foil Converter, vol 82, no 10, pp 12, Oct 2008	4	http://pffc-online.com/web_lines/need_speed_1008/	In an effort to increase profits everywhere, here is a checklist of what to consider as you think about moving to higher process speeds.	magazine	Paper Film Foil Converter	Self					
3679		nip;tracking;wrinkle	01-Nov-08	1	Walker, Timothy J.	Shifty Answers to Nip-Induced Tracking	Paper, Film & Foil Converter, vol 82, no 11, pp 12, Nov 2008	4	http://pffc-online.com/web_lines/answers_nip_induced_tracking_1108/	Before I can tell you about how uneven left-right nip loads will induce lateral tracking of your web, I must get on my anti-nip soapbox. The nip that isn't there will not shift your web (or wrinkle it).	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3683		nip;drive	01-Dec-08	1	Walker, Timothy J.	Who is Driving This Nip?	Paper, Film & Foil Converter, vol 82, no 12, pp 12, Dec 2008	4	http://pffc-online.com/web_lines/whos_driving_nip_1208/	What is the best way to drive a set of nipped rollers? Two rollers and two drive options (driven or not) lead to four options	magazine	Paper Film Foil Converter	Self					
3685		roller;alignment	01-Jan-09	1	Walker, Timothy J.	How Much Misalignment is Trouble?	Paper, Film & Foil Converter, vol 83, no 1, pp 12, Jan 2009	4	http://pffc-online.com/web_lines/misalignment_trouble_0109/	My general rule of thumb on converting equipment alignment calls for targeting a parallelism of 2 mils/ft. This converts to about 0.2 mils/in. or mm/m, 0.01 degrees, or 0.7 seconds of a degree.	magazine	Paper Film Foil Converter	Self					
3687		roller;alignment	01-Feb-09	1	Walker, Timothy J.	How Much Misalignment is Trouble?	Paper, Film & Foil Converter, vol 83, no 2, pp 12, Feb 2009	4	http://pffc-online.com/web_lines/misalignment-trouble-0209/	The way to create a shear wrinkle is to increase the misalignment of a well-wrapped roller until shear stresses within the bending web lead to buckling and a gathered wrinkling web on the misaligned roller. Shear wrinkles have three prerequisites:	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3689		roller;span	01-Mar-09	1	Walker, Timothy J.	The Great Span Length Debate - Part I	Paper, Film & Foil Converter, vol 83, no 3, pp 12, March 2009	4	http://pffc-online.com/web_lines/paper-span-length-0309/	What is the best span length? How far apart should rollers be? Is there a good rule of thumb on span length, such as “span lengths should be less than one (or one and a half) web widths?”	magazine	Paper Film Foil Converter	Self					
3754		wrinkle	01-Apr-09	1	Walker, Timothy J.	The Great Span Length Debate - Part II	Paper, Film & Foil Converter, vol 83, no 4, pp 12, Apr 2009	4	http://pffc-online.com/web_lines/span-length-2-0409/	I am comfortable with 1-6-in. web spans up to 6 ft, 24-80-in. up to 8 ft, and ultra-wide 100-200-in. webs with spans to 15 ft. I think you can double these lengths for purely vertical spans, since gravity doesn't pull the web out of plane.	magazine	Paper Film Foil Converter	Self					
3694		wind;cof	01-May-09	1	Walker, Timothy J.	The Coefficient of Winding Trouble	Paper, Film & Foil Converter, vol 83, no 5, pp 8, May 2009	4	http://pffc-online.com/web_lines/paper-coefficient-winding-trouble-0509/	The COF values that are troublesome to winding fall into three categories: low, high, and pressure-dependent.	magazine	Paper Film Foil Converter	Self					
3699		wind;cof	01-Jun-09	3	Walker, Timothy J.	Stress and Strain	Paper, Film & Foil Converter, vol 83, no 5, pp 21-23, June 2009				magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3729	o	wrinkle	07-Jun-09	14	Walker, Timothy J.	The Taxonomy of Wrinkles	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC	Self					
3744		static;wind	01-Jul-09	1	Walker, Timothy J.	How to Prevent Winding Roll Sparks	Paper, Film & Foil Converter, vol 83, no 7, pp 12, July 2009				magazine	Paper Film Foil Converter	Self					
3743		wrinkle	01-Jul-09	1	Walker, Timothy J.	Playing the Wrinkle Blame Game	Paper, Film & Foil Converter, vol 83, no 7, pp 8, July 2009	4	http://pffc-online.com/web_lines/paper-playing-wrinkle-blame-0709/	Of all the topics of web handling, only winding defects grab the attention of converters more than wrinkles, especially anyone venturing into thinner, wider, or stiffer webs. Wrinkles mean waste. The first step in fighting wrinkles is to find the source.	magazine	Paper Film Foil Converter	Self					
3746		wind	01-Aug-09	1	Walker, Timothy J.	Winding Doesn't Add Up	Paper, Film & Foil Converter, vol 83, no 8, pp 10, Aug 2009				magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3750		unwind;drive;tension	01-Aug-09	1	Walker, Timothy J.	Time for Unwinding Upgrade?	Paper, Film & Foil Converter, vol 83, no 9, pp 12, Sept 2009	3	http://pffc-online.com/web_lines/time-unwinding-upgrade-0909/	How do you know when its time to upgrade from a brake-controlled to a driven unwinding process? When an unwinding roll is small and speeds are slow, you may not notice the tension upsets that occur during acceleration and deceleration	magazine	Paper Film Foil Converter	Self					
3756		brake;motor;tension;roll;sizing	01-Oct-09	1	Walker, Timothy J.	A Torque Devil is in the details	Paper, Film & Foil Converter, vol 83, no 10, pp 12, Oct 2009	3	http://pffc-online.com/web_lines/paper-torque-devil-details-1009/	You probably don't know the torque in ft-lb or N-m required for your winding or unwinding process, but it's not hard to figure out. Here's an example of what you might come up with in calculating high and low torque requirements.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3759		wind;core;stress	01-Nov-09	1	Walker, Timothy J.	Cores, The Foundation of Winding	Paper, Film & Foil Converter, vol 83, no 11, pp 12, Nov 2009	3	http://pffc-online.com/web_lines/paper-cores-foundation-winding-1109/	Core pressures are commonly 10?100 psi but easily can reach 1,000 psi in winding stretch films. The core will respond to pressure by compressing and, in cases of extreme pressure, by collapsing	magazine	Paper Film Foil Converter	Self					
3765		tension;design;strength	01-Dec-09	1	Walker, Timothy J.	What is the right tension?	Paper, Film & Foil Converter, vol 83, no 12, pp 10, Dec 2009	4	http://pffc-online.com/web_lines/paper-right-tension-1209/	If you tally up this imaginary poll, you will find 80% of webs run between 0.3 and 3.0 PLI, and 95% of processes are happy between 0.1 and 10 PLI.	magazine	Paper Film Foil Converter	Self					
5891		tension;design;strength	01-Jan-10	1	Walker, Timothy J.	What is a Tension Zone and How Many are Needed?	Paper, Film & Foil Converter, vol 84, no 1, pp 12, Jan 2010	3	http://pffc-online.com/web_handling/tension/0101-defining-web-tension/	A tension zone is a section of a web line between any two torque or speed controlling devices where the tension is set by design or by control. Torque or speed controlling devices typically include motors, clutches, and brakes.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5919		guide;winder;unwind	01-Feb-10	1	Walker, Timothy J.	Pitch & Catch Guiding	Paper, Film & Foil Converter, vol 84, no 2, pp 8, Feb 2010	2	http://pffc-online.com/web_handling/web_guiding/0201-unwind-rewind-guide/	An unwind sidelay guide has the same goal: to unwind the web in a lateral position relative to the machine centerline, usually centered on the machine centerline, but sometimes intentionally off-center.	magazine	Paper Film Foil Converter	Self					
5922		guide;track	01-Mar-10	1	Walker, Timothy J.	Your Guide to Web Guiding - Part 1	Paper, Film & Foil Converter, vol 84, no 3, pp 12, Mar 2010	2	http://pffc-online.com/web_handling/web_guiding/paper_guide_web_guiding/	Lateral registration is the left-right or crossweb relative positioning of two or more features of your web or equipment. To most people, registration is something used in printing and packaging to align one print or die-cut pattern to another	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5927		guide;track	01-Apr-10	1	Walker, Timothy J.	Web Guiding - Lateral Motion Causes	Paper, Film & Foil Converter, vol 84, no 4, pp 6, Apr 2010	3	http://pffc-online.com/web_handling/web_guiding/paper_guide_web_guiding/	There are two strong forces that promote centerline tracking. First, tension will tend to pull a bad web straight. Second, the web tracking rule promotes centerline tracking on well aligned rollers in traction	magazine	Paper Film Foil Converter	Self					
5938		guide;track;traction	01-May-10	1	Walker, Timothy J.	Force is needed to shift a web	Paper, Film & Foil Converter, vol 84, no 5, pp 8, May 2010	3	http://pffc-online.com/web_handling/web_guiding/paper_guide_web_guiding/	If you want to bend a web, your rollers will need to push on it. That push is delivered by web-to-roller traction.	magazine	Paper Film Foil Converter	Self					
5967		guide;application	01-Jun-10	1	Walker, Timothy J.	Do you need and auto web guide?	Paper, Film & Foil Converter, vol 84, no 6, pp 8, June 2010	2	http://pffc-online.com/web_handling/web_guiding/0601-automatic-web-guide-reasons/	Does every web process need an automatic web guide? Maybe two?	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5970		winder;design; application	01-Jul-10	1	Walker, Timothy J.	Are You Getting the Shaft	Paper, Film & Foil Converter, vol 84, no 7, pp 8, July 2010	2	http://pffc-online.com/web_handling/winding_unwinding_rewinding/0701-shaft-winding-options/	but in winding there are good and bad aspects of whether you want to get the shaft (wind with a shaft inside your core) or not (wind with a core supported by end chucks or other no-shaft options). To clarify:	magazine	Paper Film Foil Converter	Self					
5972		nip;roller;control;deflection	01-Aug-10	1	Walker, Timothy J.	How to control roller nips	Paper, Film & Foil Converter, vol 84, no 8, pp 8, Aug 2010	4	http://pffc-online.com/web_handling/nipped-rollers-control-pressure-0801/	following options: 1.Put it in a vise or C-clamp and slowly turn the screws until it compresses to the desired dimension (but let the force or pressure be whatever happens). 2.Pile weights over a given area to compress it	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5975		nip;roller;quality;measure	02-Sep-10	1	Walker, Timothy J.	Mission: Detect Nip Variations	Paper, Film & Foil Converter, vol 84, no 9, pp 8, Sept 2010	4	http://pffc-online.com/web_handling/mission-detect-nip-variations-0901/	measuring what happens between two nipped rollers, there are many options available to you ranging from more than $40,000 to less than 25¢.	magazine	Paper Film Foil Converter	Self					
5980		wind;roll;length	01-Oct-10	1	Walker, Timothy J.	Web Length per Roller Revolution = ?	Paper, Film & Foil Converter, vol 84, no 10, pp 8, Oct 2010	4		When a roller rotates, how much web does it feed forward per revolution?	magazine	Paper Film Foil Converter	Self					
5988		roller;deflection;standard	01-Nov-10	1	Walker, Timothy J.	Roller Deflection	Paper, Film & Foil Converter, vol 84, no 11, pp 8, Nov 2010	4	http://pffc-online.com/web_handling/roller-deflection-definition-1101/	How much roller deflection is a problem?	magazine	Paper Film Foil Converter	Self					
5987		roller;wind;shaft;deflection;vibration	01-Dec-10	1	Walker, Timothy J.	Reflections on Deflection	Paper, Film & Foil Converter, vol 84, no 11, pp 8, Dec 2010	3			magazine	Paper Film Foil Converter	Self					
6021		air_turn;air_entrain;design;roller;scratching;floatation	01-Jan-11	1	Walker, Timothy J.	Blow Away Your Roller	Paper, Film & Foil Converter, vol 85, no 1, pp 8, Jan 2011	3	http://pffc-online.com/web_lines/air-turn-bar-uses-0111/	What can reverse the direction of your web without touching it? What can redirect a web's running angle or inclination with the tension losses of roller drag or inertia	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6022		air_turn;air_entrain;design;roller;scratching;floatation	01-Feb-11	1	Walker, Timothy J.	Web Lines: Don't Flip Out—It's Just a Web Flip	Paper, Film & Foil Converter, vol 85, no 2, pp 8, Feb 2011	4	http://pffc-online.com/web_lines/dont-flip-web-0201/	Web flips are added to dual coating or multi-station printing processes to provide the following two options	magazine	Paper Film Foil Converter	Self					
9898		roller;traction;vacuum	01-Mar-11	1	Walker, Timothy J.	Limitations of Vacuum Pull Rollers	Paper, Film & Foil Converter, vol 85, no 8, pp 9, Aug 2011	4	http://pffc-online.com/web-handling/9810-web-handling-top-7-causes-wrinkles-1010	Pete's column did a great job covering the what, how, and why of VPRs. To read the article, visit http://pffc-online.com/web_handling/tension/paper-grip-on-web-1109. What is there left to say about VPRs	magazine	Paper Film Foil Converter	Self					
6079		nip;roller;design;traction	01-Apr-11	1	Walker, Timothy J.	Would you like nips with that?	Paper, Film & Foil Converter, vol 85, no 4, pp 8, Apr 2011	4			magazine	Paper Film Foil Converter	Self					
6082		nip;roller;design;traction	01-May-11	1	Walker, Timothy J.	Would you like nips with that? - Part 2	Paper, Film & Foil Converter, vol 85, no 5, pp 6, May 2011	5	http://pffc-online.com/web_handling/winding_unwinding_rewinding/nips-part-2-0501/	Do you understand the tension differential across your drive rollers? Are you sure you can't support this differential without a nip roller?	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6119		guide;displacement;steering;design;application	01-Jun-11	1	Walker, Timothy J.	Displacement vs Steering - Battle of the Web Guides	Paper, Film & Foil Converter, vol 85, no 6, pp 8, June 2011	4	http://pffc-online.com/web_handling/web_guiding/displacement-vs-steering-0601/	displacement guide (also known as the offset pivot, a positive displacement, or a tabletop guide). In the other corner — sleek and trim in what is usually a single roller on a unique arcing motion — the steering guide	magazine	Paper Film Foil Converter	Self					
6122		wind;model;interlayer;pressure	01-Jul-11	1	Walker, Timothy J.	Is Wound Roll Pressure > Tire Pressure	Paper, Film & Foil Converter, vol 85, no 7, pp 8, July 2011	4	http://pffc-online.com/web_handling/tension/wound-roll-pressure-0701/	I'll bet you that your wound roll has more internal pressure than a car tire. To win this bet, I have to prove that internal roll pressure is above 30 psi (just over 2 bar or 200 kPa).	magazine	Paper Film Foil Converter	Self					
6124		wrinkle;foil;align	01-Aug-11	1	Walker, Timothy J.	Wrinkling of Foils	Paper, Film & Foil Converter, vol 85, no 8, pp 9, Aug 2011	4		Even if you have manufactured foils for many years, foils can make you wrinkle phobic	magazine	Paper Film Foil Converter	Self					
9897		wrinkle;diagnose;roller;misalign	10-Oct-11	1	Walker, Timothy J.	Top Seven Causes for Wrinkles	Paper, Film & Foil Converter, vol 85, no 8, pp 9, Aug 2011	4	http://pffc-online.com/web-handling/9810-web-handling-top-7-causes-wrinkles-1010	seven common causes of web wrinkling along with practical solutions.	magazine	Paper Film Foil Converter	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9896		machine;control;design	05-Dec-11	1	Walker, Timothy J.	A Rant from Tim Walker	Paper, Film & Foil Converter, vol 85, no 8, pp 9, Aug 2011	4	http://pffc-online.com/web-handling/9920-web-lines-a-rant-from-tim-walker	You know who you are, giving me an operator control panel with pressure gauges and motor currents. That is so 1970s.	magazine	Paper Film Foil Converter	Self					
9895		wind;defect;block	13-Jan-12	1	Walker, Timothy J.	Blocking of Rolls	Paper, Film & Foil Converter, vol 85, no 8, pp 9, Aug 2011	3	http://pffc-online.com/web-handling/9994-web-lines--blocking-in-rolls	Two of the biggest contributors to blocking, outside of chemistry, are pressure and contact area.	magazine	Paper Film Foil Converter	Self					
9894		web_handling	15-Feb-12	1	Walker, Timothy J.	Test Your Web Handling Knowledge	Paper, Film & Foil Converter, vol 85, no 8, pp 9, Aug 2011	4	http://pffc-online.com/web-handling/10073-web-lines-test-your-web-handling-knowledge	Even if you have manufactured foils for many years, foils can make you wrinkle phobic	magazine	Paper Film Foil Converter	Self					
5672		wrinkle;roller;misalignment;model;measurement;stress;spreader;bowed_roller;compliant_roller;d-bar;expander_roller;grooving;tenter	10-May-06	101	Walker, Timothy J. and Jones, Dilwyn and Roisum, David R	A Practical Approach to Eliminate Web Wrinkling	AIMCAl Short Course, Charlotte, NC, May 10, 2006	4			notes	AIMCAL	Self	PracticalApproachEliminateWrinkling	SpreadWrinkleScan	doc and pdf	07-Oct-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2360		permeability;property;measure	01-Mar-92		Walkinshaw, J.W. and Hagerty, G.A.	Analysis of Gurley Type Air Permeability Measurement and the use of Electronic Flow Sensors	Tappi J., vol 75, no 3, Mar 1992	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4813&DID=520112	Gurley-type instrument is described in TAPPI Test Method T 460 om-88 for measuring air permeability. Based on a full understanding of the instrument parameters and the measurement process, an electronic flow sensor	magazine	TAPPI						
3166		coat;reverse_roll;defect	01-Dec-03	6	Walter, Peter and Strong, William	Solving common coating flaws in reverse roll coating	Converting Magazine, vol 21, no 12, pp 30-38, Dec 2003	3	http://www.convertingmagazine.com/article/308792-Solving_common_coating_flaws_in_Reverse_Roll_Coating.php	it is a widely used, flexible coating method, allowing its application over a wide range of applied thickness with all major types of coatings within a typical viscosity range of 500 cps to 5,000 cps.	magazine	Converting Magazine	National Starch					
5470		coating;roll_coater;kiss;squeeze;transfer	27-Mar-96	29	Walthy, George J	The Challenge in Applying Roll Coaters	CEMA Shortcourse The Coating and Lamination Process Substrates, Coatings and Equipment, March 27, 1996	3			shortcourse	CEMA	Kroenert	RollCoater Walthy	CtgCema96	doc and pdf	01-Oct-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2361	o	tension;control	01-Jun-97		Walton, B. and Rice, B.S.	Web Longitudinal Dynamics	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC						
2609	o	guide;model	06-Jun-99	16	Walton, R.L.	Revised Sievers Lateral Dynamics Model	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC	Kodak					
2842	o	lateral;weave;traction;air_float_oven	11-Jun-01	10	Walton, R.L.	Empirical Investigation of Weave vs Web-to-Roller Traction	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC	Kodak					
3304	o	flat;panel	05-Jun-05	10	Walton, R.L.	Web Handling for Flexible Diplay Manufacture	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC	Kodak					
2853		safety;paper_mill	01-Jul-01	1	Wandmacher, William N.	Safety as a standard benchmark	Pulp & Paper, vol 75, no 7, pp 72, July 2001				magazine	Pulp and Paper						
2362		tension	01-Jul-87		Wang, Ching-Yang	Tension Distributin Across a Moving Web	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						
2363		decurl	01-Jun-90		Wang, F.	On Measures for Web Decurling	China Pulp & Paper, Jun 1990											
5683		tension;oscillation;chain;sprocket;vibration	01-Jan-91	10	Wang, K.W.	On the Stability of Chain Drive Systems under Periodic Sprocket Oscillations	ASME Machinery Dynamics and Element Vibrations, DE vol 36, 1991	4			magazine	ASME	Penn State Univ	StabilityChainDrive	TensionScan	doc and pdf	26-Dec-09	unusual

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5974		hardness;parotest;runnability;bagginess;print	01-Jan-10	7	Wanigaratne, DMS and Faltas, R and Saunders, S and Virta, M	Investigation of Reel Hardness, profile variation and paper runnability	Appita J, 2010	4		Reel hardness measurement is employed to gauge the roll uniformity	magazine	Appita	Amcor Tech Service, Paperlinx	HardnessRunnabilityWanigaratne	WindMeasure	doc and pdf		paper quality using roll quality hardness
9798		vacuum_dep	10-Jun-12		Wanski, Tomasz	Roll-to-Roll Vacuum Deposition of OLEDS for Lighting Application	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Fraunhoffer Institute					
5785		wind;rol_quality;defect	18-Sep-70	6	Ward, E J	Roll Quality Control in Mill Type Winders	Pulp & Paper Canada, vol 71, no 18, pp 85-90	2			magazine	Pulp and Paper Canada	Cameron	RollQualityControlWard	WindGeneralScan	doc and pdf	07-Nov-09	
2366		duplex winder;slitter;	01-Sep-78		Ward, E.J. et al	Two-Drum Surface Shaft Type Duplex and Shaftless Mir Winding System	Paper Age, vol 14, no 9, pp 29-30 etc				magazine	Paper Age	Cameron					
2980	o	coat;laminate;web_handling	21-Oct-02		Ward, Jim	Web Handling for Laminating/Coating Processes: How to Improve Your Bottom Line	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL	Martin Automatic					
2367		nip;width;calculation	01-Mar-89		Warner, S.B.		Textile Research J., vol 59, no 3, pp 151, 1989				magazine	Textile Research J						
2368		bearing;failure;fft;vibration;diagnostic	01-Sep-95	2	Warnock, W. Michael	An unusual paper machine roll bearing failure	Tappi J., vol 78, no 9, pp 213-214, September 1995	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4741&DID=517790	Cracked inner races are more severe than minor spalling of a raceway because the bearing can turn on and destroy the journal, overheat, seize up, and cause a catastrophic failure, all very rapidly. They can be difficult to distinguish from minor spalling	magazine	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2369		calender;soft	01-Dec-91		Wasik, L.S. et al	Soft Nip Calendering	Pulp and Paper Canada, Dec 1991				magazine	Pulp and Paper Canada						
2370		control	11-Nov-73	5	Wasilko, Robert J.	Control and Reduction of End-Trim Losses	TAPPI Finishing and Converting Conf. Proc., 1973				conference	TAPPI						
5786		wind;news;runnability;crepe_wrinkle	01-Aug-93	5	Wason, S.K and Shastri, S. and Goulet, Y.	PSS Products for Newsprint and Groundwood Papers	Pulp & Paper Canada, vol 94, no 8, pp 209-214, Aug 1993	2			magazine	Pulp and Paper Canada	Abitibi	PSSproductsNews	WindGeneralScan	doc and pdf	07-Nov-09	
2372		fiber;compression;buckle	01-Mar-89		Wass, A.M. and Babcock, C.D. and Knauss, W.G.	A Mechanical Moel for Elastic Fiber Microbuckling	J. of Applied Mechanics, Mar 1990				magazine	J Applied Mechanics						
3093		flutter	01-Apr-02	13	Watanabe, Y. and Isogai, K. and Suzuki, S. and Sugihara, M.	A Theoretical Study of Paper Flutter	J of Fluids and Structures, vol 16, no 4, pp 543-560, 2002				magazine							
2373	o	flutter;model	19-May-91	11	Watanabe, Y. and Suzuki, S. and Sueoka, Y. and Kunimaru, H.	The Flutter Mechanism of Sheet	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 246-256, May19-22 1991					WHRC						
3092		flutter	01-Apr-02	13	Watanabe, Y. and Suzuki, S. and Sugihar, M. and Sueoka, Y.	An Experimental Study of Paper Flutter	J of Fluids and Structures, vol 16, no 4, pp 529-542, 2002				magazine							
2374		paper;property;shear;deformation;torsion;linerboard;corrugated	01-Jun-84	5	Waterhouse, John F.	Out of Plane Shear Deformation Behavior of Paper and Board	Tappi J., vol 67, no 6, pp 104-108, Jun 1984				magazine	TAPPI						
2375		paper;property;ultrasonic;test;modulus	01-Jan-94	7	Waterhouse, John F.	Ultrasonic Testing of Paper and Paperboard: Principles and Applications	Tappi J., vol 77, no 1, pp 120-126, January 1994				magazine	TAPPI						
2756	o	startup	16-Oct-00		Watson, Chris	Anticipate and Avoid Problems and Headaches	AIMCAL Fall Tech Conf, Oct 16-18, 2000					AIMCAL						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2376		roll structure;hardness;stress;paper;property;variation;analyti	01-May-71		Waye, D. et al	Problems in Automation and Control of Dry-End Reeling of Paper	PRP2 Autom (IFAC Conf Brussels) Paper no 1.1: 10p											
6116		roller;misalign;wrinkle;model	01-Dec-04		Webb, D.D.	Prediction of Web Wrinkles due to Misalignment of a Downstream Roll in a Web Span	MS Thesis, WHRC, OK State Univ, Dec 2004				thesis	WHRC	WHRC					
2377		nip;contact;stress;impact	01-Jan-74	24	Weber, J.R. and Stippes, M.C. and Costello, G.A.	Elastic Impact of Cylinders	J. of Applied Mechanics, Transactions of the ASME, vol 41				magazine	J Applied Mechanics						
2378		steam;dry;heat_transfer;siphon	01-Jan-82	5	Wedel, Gregory L.	Performance of Dryer Syphons	TAPPI Engineering Conf. Proc., 1982				conference	TAPPI	Beloit					
14166		roller;nip;pressure;sensor;measure	30-May-16	1	Wedell, Stefan	Securing a production process	AIMCAL Europe Web Conf, Dresden, May 30 - June 2, 2016	3			conference	AIMCAL	Nip Control AB					
9861		roller;nip;pressure;measure	14-Jun-12		Wedgell, Stephen	Measuring Nip Pressure and Footprint	AIMCAL Web Handling Conference, Prague, Jun 14-15, 2012	3		Static and dynamic behavior of nips 5. How to measure inside a nip 6. Measurements of “nip width” and “nip height” 7. Absolute and relative measurements	conference	AIMCAL	Nip Control				27-Jul-12	
9879		roller;nip;pressure;measure	22-Oct-12		Wedgell, Stephen	Measuring Nip Pressure and Footprint	AIMCAL Web Handling Conference, Myrtle Beach, Oct 22-23, 2012	3		Static and dynamic behavior of nips 5. How to measure inside a nip 6. Measurements of “nip width” and “nip height” 7. Absolute and relative measurements	conference	AIMCAL	Nip Control				27-Jul-12	

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10065		nip;impression;sensor	08-Jun-14		Wegdell, Stefan	Process Critical Nips and How Nip Characteristics Change	AIMCAL Web Coating Conference, Prague, Jun 8-11, 2014	3			conference	AIMCAL	Nip Congtrol AB					
10101		nip;roller;impression;measure	20-Oct-14		Wegdell, Stefan	Process Critical Nips and How Nip Characteristics Change	AIMCAL Web Coating / Handling Conf, Myrtle Beach, Oct 20-23, 2014				conference	AIMCAL	Nip Control AB					
2379		newsprint;runnability;web_break;fracture	01-Jan-85		Weide, W., and Ramaz, A. and Poujade, J.L.	The Fracture Resistance of Newsprint	18th IARIGAI Cof, Williamsburg, 1985.											
2380		static	01-Jan-97	4	Weinberg, Mark L.	Hair-Raising Experience	Package, Printing & Converting, pp 22-25, January 1997				magazine	Package Printing & Converting						
2381		safety, guard, interlock, light curtain	01-Jan-97	4	Weinberg, Mark L.	Oops, Ouch, Oh No!	Package, Printing & Converting, pp 36-39, January 1997				magazine	Package Printing & Converting						
5471		coating;water_based;ink	27-Mar-96	10	Weinzimer, Mel	Performance Economics of Water Based Inks	CEMA Shortcourse The Coating and Lamination Process Substrates, Coatings and Equipment, March 27, 1996	2			shortcourse	CEMA	Polytex Environmental Inks	PerformanceWaterBasedInks	CtgCema96	doc and pdf	01-Oct-09	
5592		roller;alignment		2	Weiss, Herbert	Yearly Machinery Alignment Controls Quality Loss, Cost	Paper, Film & Foil Converter	2			magazine	Paper Film Foil Converter	Self	YearlyMachineAlignment	RollerScan	doc and pdf	18-Dec-09	
2382	o	coat;laminate;book	01-Jan-77	441	Weiss, Herbert L.	Coating and Laminating Machines	Converting Technology Co, Milwaukee WI, 1977	10			Book		Self					
2383	o	convert;book	01-Jan-78	111	Weiss, Herbert L.	Technically Speaking	Converting Technology Co, Milwaukee WI, 1978	10			Book		Self	StatControlRollFrost	BookScan	doc and pdf	03-Mar-11	
2384		load cell;dancer roller;web;tension;unwind	01-Oct-81		Weiss, Herbert L.	Getting Better Quality With Dancer Controlled Unwinders	Pkg Printing, vol 28, no 12, pp 11-12 103; vol 29, no 1, pp 14 50-52						Self					
2385	o	control;tension;drive;book	01-Jan-83	350	Weiss, Herbert L.	Control Systems for Web-Fed Machinery	Converting Technology Co, Milwaukee WI, 1983	10			Book		Self					

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2386		defect;telescope;tension;air entrainment	01-Jun-84		Weiss, Herbert L.	Lay-on Rollers Improve Quality	Package Printing & Converting, vol 31, no 6, pp19; no 8, pp 32; no 9, pp 54				magazine	Package Printing & Converting	Self					
2387	o	print;book	01-Jan-85	500	Weiss, Herbert L.	Rotogravue and Flexographic Printing Presses	Converting Technology Co, Milwaukee WI, 1985	10			Book		Self					
2388		spread;wrinkle	01-Oct-89		Weiss, Herbert L.	Various Web-Control Devices Minimize Wrinkling	Paper, Film & Foil Converter, vol 63, no 10, Oct 1989				magazine	Paper Film Foil Converter	Self					
2389	c	spread;roller;wrinkle	01-Nov-89	4	Weiss, Herbert L.	Installing Roller Devices Can Prevent Web Wrinkling	Paper, Film & Foil Converter, vol 63, no 11, pp 131-134, Nov 1989				magazine	Paper Film Foil Converter	Self					
5673		roller;spread;groove;air_entrain	01-Nov-89	4	Weiss, Herbert L.	Installing Roller Devices Can Prevent Web Wrinkling	Paper, Film & Foil Converter, vol 63, no 11, pp 131-134, Nov 1989	2			magazine	Paper Film Foil Converter	Self	InstallingRollerDevicesWrinkling	SpreadWrinkleScan	doc and pdf	19-Dec-09	
2390		tension;control;drive;registration	01-Dec-92	2	Weiss, Herbert L.	Consistent Web Print Length Requires Tension Controls	Paper, Film & Foil Converter, vol 66, no 12, pp 68-69, Dec 1992				magazine	Paper Film Foil Converter	Self					
2391		dryer	01-Mar-93	5	Weiss, Herbert L.	Consider Support of Material when Selecting Correct Dryer	Paper, Film & Foil Converter, vol 67, no 3, pp 82-86, Mar 1993				magazine	Paper Film Foil Converter	Self					
2392		drive;torque;hp;tension	01-Apr-93	4	Weiss, Herbert L.	Horsepower Not Only Factor for Correct Motor Capacity	Paper, Film & Foil Converter, vol 67, no 4, pp 96-99, Apr 1993				magazine	Paper Film Foil Converter	Self					
2393		tension;design	01-May-93	4	Weiss, Herbert L.	Consider Pull, Material Type for Correct Tension Setting	Paper, Film & Foil Converter, vol 67, no 5, pp 164-167, May 1993				magazine	Paper Film Foil Converter	Self					
2394		drive;motor;ac;dc	01-Jul-93	4	Weiss, Herbert L.	DC Drives on Web Machines Not Old-Fashioned Concept	Paper, Film & Foil Converter, vol 67, no 7, pp 56-59, July 1993				magazine	Paper Film Foil Converter	Self					
2395	o	nip;rubber;roller;design	01-Sep-93	2	Weiss, Herbert L.	Good Nip-Roller Design Stops Problems with Sheet Handling	Paper, Film & Foil Converter, vol 67, no 9, pp 94-95, Sep 1993				magazine	Paper Film Foil Converter	Self					

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5593		roller;spread;groove;air_entrain	01-Sep-93	3	Weiss, Herbert L.	Good Nip-Roller Design Stops Problems with Sheet Handling	Paper, Film & Foil Converter, vol 67, no 9, pp 94-95, Sep 1993	2			magazine	Paper Film Foil Converter	Self	GoodNipRollerDesign	RollerScan	doc and pdf	19-Dec-09	
2397		roller;ceramic;print	01-Jan-94	1	Weiss, Herbert L.	Surface Energy Can Inhibit Ink Transfer on Ceramic Rolls	Paper, Film & Foil Converter, vol 68, no 1, pp 62, Jan 1994				magazine	Paper Film Foil Converter	Self					
2398	o	spread;roller;wrinkle	01-Mar-94	3	Weiss, Herbert L.	Web Spreaders Help Prevent Wrinkling in Nipping Unit	Paper, Film & Foil Converter, vol 68, no 3, pp 68-71, Mar 1994				magazine	Paper Film Foil Converter	Self					
2399		dryer;air_float;web_scratch;tendency_drive	01-Apr-94	3	Weiss, Herbert L.	Right Drive System Minimizes Dryer Roller Web Scratching	Paper, Film & Foil Converter, vol 68, no 4, pp 90-92, Apr 1994				magazine	Paper Film Foil Converter	Self					
2400		dryer;IR;temperature;measure	01-May-94	2	Weiss, Herbert L.	IR Thermometers Invaluable for Accurate Temperatures	Paper, Film & Foil Converter, vol 68, no 5, pp 166-167, May 1994				magazine	Paper Film Foil Converter	Self					
2401			01-Apr-80		Weissmann, G.F. et al	Optical Displacement Measuring Device	ISA Transactions, vol 19, no. 4, pp 73, Apr 1980											
2402		core;web;	01-Aug-83		Welch, R.D. et al	Web Cinching and Winding Apparatus	Research Disclosure, no 232, pp 264-265											
2403		web_handling	27-Mar-96	10	Wells, Beth	Web Handling Techniques for the 90's	CEMA Conf, The Coating and Laminating Process, March 27-28, 1996				conference	CEMA	Black-Clawson					
2404			31-Aug-98		Wells, Beth	Effective Modern Converting Equipment and Controls for Source and Waste Reduction	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Francisco, Aug 31-Sept 3, 1998				conference	TAPPI	Black-Clawson					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2620		waste;edge_bead;roll_change;	01-Jun-99	9	Wells, Beth	Modern converting equipment and controls for source and waste reduction	Tappi J, vol 82, no 6, pp 201-209, June 1999	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4750&DID=519060	total quality program to ensure production of product as planned. Such programs often result in continuous improvements of the existing process, but they seldom look beyond the inherent limitations of the process	magazine	TAPPI	Black-Clawson					
3031	o	extrusion;coat	13-Apr-03	5	Wells, Beth	Extrusion Coating Equipment for Effective Cost Reduction	CEMA Coating and Laminating Seminar, Chicago, April 15, 2003				shortcourse	CEMA	Black-Clawson					
5472		web_handling;roller;design;spreader;guide	27-Mar-96	12	Wells, Beth and Augustine, Mike	Web Handling Techniques for the 90's "Rolls Used in Web Handling	CEMA Shortcourse The Coating and Lamination Process Substrates, Coatings and Equipment, March 27, 1996	2			shortcourse	CEMA	Black-Clawson	WebHandlingWells	CtgCema96	doc and pdf	01-Oct-09	
2405		wind	01-Jul-92		Welp, E.	Winding High Grade Printing and Technical Papers	Paper Technology, Jul 1992				magazine	Paper Technology						
2406	o	wind;duplex;design	19-May-91	13	Welp, E. G.	Winding Problems with Rotogravure Jumbo-Rolls	1st Int'l Conf. on Web Handling, Oklahoma State Univ, pp 154-166, May19-22 1991					WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2407	o	winding	01-Jun-97		Welp, E. G. and Guldenburg, B.	Analysis of the Kinematic and Dynamic Processs during Winding based on a Systematology of Models for Winding Mechanics	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC						
3504	o	calender	10-Jun-07	8	Welp, E. G. and Niebuhr, V.	Rolling Contact Problems and Physical Interactions in Calendering of Paper	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC						
3508	o	interactions;paper	10-Jun-07	8	Welp, E. G. and Nieburh, V.	Interactions of Time Dependen Thermal and Hygroscopic Charactristics and Runnability Properties of Paper	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC						
2408		wind;duplex	01-Oct-91		Welp, E.G.	Jumbo Rolls for Uncoated Gravure and LWC Gravure	Papier, Oct 1991				magazine							
2409	o	wind;duplex	06-Oct-91	14	Welp, E.G.	An Improved Winding System for High Grade Printing and Technical Papers	TAPPI Finishing and Converting Conf. Proc., Houston, pp 139-152, Oct 6-10 1991	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5678&DID=516352	increasing productivity and product quality requirements in the area of roll and sheet stock for printers and converters keep creating new challenges for the makers of slitting and winding equipment	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3070	o	air_entrain	01-Jun-03	8	Welp, E.G. and Kleinert, A and Schuler, D. (Ruhr Univ)	Prevention of Web Floating at Wrapped Transport and Guide Rollers	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC						
3319	o	air-entrain	05-Jun-05	10	Welp, E.G. and Kleinert, A. and Smukala, V.	Influence of the Gap Throttle Effect on the Winding Process and Roll Quality	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC						
2410		core;drum;rebuild	01-Nov-83	10	Welp, E.G. and Schoenmeler, H.	Studies on Improvement of Roll Building in Winders	Papier, vol 37, no 10a, pp 179-188				magazine							
2411		roll structure;nip;roll;core;density;winder;finishing;	01-Apr-84	7	Welp, E.G. and Schoenmeler, H.	Improving Roll Structure -- A Research Report	Tappi J., vol 67, no 4, pp 70-76, Apr 1984				magazine	TAPPI						
2846	o	spreading;control	11-Jun-01	10	Welp, E.G. and Wang, D. and Kleinert, A.	A Regulating Concept for Web Spreading Equipment in Web Processing Machines on the Basis of Neural Networks	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC						
3302	o	tension;control;model	05-Jun-05	10	Welp, E.G. and Wofl, E. and Neibuhr	A Complete Material Law of Paper for Modeling and Simulation of Finishing Processes	8th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 5-8, 2005					WHRC						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2588	o	slit;shear;model	06-Jun-99	8	Welp, E.G. and Wolf, E.	Theoretical Analysis of Shear Slitting of Paper on the basis of a three-dimensional material law	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC						
2836	o	slitter;edge;measurement	11-Jun-01	10	Welp, E.G. and Wolf, E. and Heindl, J.	A New Objective Method for Quantitative Assessment of Cut Edge Quality for Paper and Board	6th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2000					WHRC						
5536		moisture;twist;warp;curl;board;fiber_angle	01-Apr-92	5	Wennerblom, Axel B	Twist warp - causes and cures	Tappi J., vol 75, no 4, pp 97-101, Apr 1992	3	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4814&DID=520148	Warp is still the boxmaker's most serious quality problem. Of all forms of warp, twist warp is perhaps the most dangerous because it makes it especially difficult for feeders in converting and packaging machines to function properly	magazine	TAPPI	SCA	TwistWarp BoardCurl	MiscScan	doc and pdf	17-Sep-09	
3398	o	winder;drive;control	07-May-06	1	Werner, Pete	Unwinding and winding control methods for center driven converting	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Rockwell					
3389	o	drive	07-May-06	1	Werner, Pete	Motor and drive sizing for converting center winders and unwinders	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	Rockwell					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2595	o	drive;tension;laminate;curl	06-Jun-99	18	Werner, Peter	Machine Direction Laminate Curl Control	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC	Rockwell					
2414		computer;automation;roll handling	06-Oct-85	7	West, A.	Micro Solution to a Major Problem	TAPPI Finishing and Converting Conf. Proc., 1985				conference	TAPPI						
9892		drive;AC;DC;compare	01-Apr-12	3	West, Adrian	Understanding variable-speed AC DC drive technology	Converting Quarterly, qtr 2, 2012	3			magazine	AIMCAL	self					
14081		static	01-Jan-15	2	West, Kim	How to control static in web converting applications	Flexible Packaging, Jan/Feb 2015	3			magazine	Flexible Packaging	Simco-Ion					
2788		moisture;diffusion	01-Jun-96		Westerland, B.S. and Gustafsson, A. and Carlsson, L.A.	Diffusion of Water Vapour in Paper	Progress Paper in Paper Physics Seminar, Stockholm, June 1996											
2415		board;zd;compress	01-Jul-92		Westerlind, B.G. and Carlsson, L.A.	Compressive Response of Corrugate Board	Tappi J., vol 75, no 7, Jul 1992	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5691&DID=515959	suitable specimen design, end crushing, which is a common failure triggering mode in the standard Edge Crush Test (ECT), is avoided. By special side supports designed to avoid global buckling	magazine	TAPPI						
2416		paper;property;fracture	01-Jan-96	7	Westerlind, B.S. and Carlsson, L.A. and Andersson, Y.M.	Fracture Toughness of Board Evaluated by the J-Integral	J. of Material Science, 26, pp 2630-2636, 1991.				magazine							

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2417		fabric;paper;dryer	15-Nov-83	2	Westhead, T.	Is Increased Fabric Tension the Answer to Increased Drying	Paper Trade J., pp 33-34, Nov 15 1983				magazine	Paper Trade J						
5787		wind;film;roll_change;automation;static	01-Nov-93	7	Wettermann, Robert P.	Electrostatically Assisted Starts on Automatic Winders	Tappi J., vol 76, no. 11, pp 231-237, Nov 1993	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4809&DID=520016	Elemostatically assisted core starting is a method by which the leading edge of various types of film can be adhered to cores after being cut on automatic film winders	magazine	TAPPI	Tantec	ElectrostaticWinder	WindGeneralScan	doc and pdf	07-Nov-09	
2440		static	28-Aug-94		Wettermann, Robert P.	Static Control Methods in Hazardous Areas in Converting Operations	TAPPI Polymers, Laminations and Coatings Conf. Proc., August 28 - September 1, 1994	4	http://www.tappi.org/s_tappi/doc bookstore.asp?CID=5533&DID=523379	Ignition hazards generated by the presence of static charges in hazardous areas in converting operations and practical solutions for reducing the exposure to fires are explained. Five simultaneously occurring criteria required for an ignition	conference	TAPPI	Tantec					
5537		static;safety;printing;explosion;static_bar;humidity	01-Feb-95	9	Wettermann, Robert P.	Static Control Methods in Hazardous areas in Converting Operations	Tappi J., vol 78, no. 2, pp 192-200, February 1995.	4	http://www.tappi.org/s_tappi/sec publications.asp?CID=4846&DID=518583	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5533&DID=523379	magazine	TAPPI	Hurletron	StaticControlConverting	MiscScan	doc and pdf	26-Dec-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2442		static	01-Mar-98	2	Wettermann, Robert P.	Static Control Advances with DC Technology	Paper Film Foil Converter, vol 72, no 3, pp 74-75, March 1998				magazine	Paper Film Foil Converter						
2443		static;convert;print;coat;defect	01-Aug-98	2	Wettermann, Robert P.	New solutions to eliminate imbedded "static charges"	Converting Magazine, vol 72, no 8, pp 122-123, August 1998				magazine	Converting Magazine						
2887	o	six_sigma;statistic;quality_control	22-Oct-01		Wheeler, James M.	Six Sigma Control on Coating Operations	AIMCAL Fall Tech Conf, Oct 22-24, 2001					AIMCAL						
2950	o	six-sigma;defect;qa;statistics	01-Jul-02	2	Wheeler, James M.	Can a small coater benefit from Six Sigma?	Converting Magazine,vol 20, no 6, pp 20-21, July 2002	2	http://www.convertingmagazine.com/article/310744-Can_a_small_coater_benefit_from_Six_Sigma_.php	Six-Sigma performance is fast becoming the standard for world-class companies. Six-Sigma implies a manufacturing defect rate of 3.4 ppm; however,	magazine	Converting Magazine						
2981	o	coat;upgrading	21-Oct-02		Wheeler, James M.	Upgrading your Coating Operation: Is Curtain Coating the Right Choice	AIMCAL Fall Tech Conf., Sedona AZ, October 21-23, 2002					AIMCAL						
3115		curtain;coater	01-Jun-03	6	Wheeler, James M.	Curtain Coating of Adhesives	Converting Magazine,vol 21, no 6, pp30-38, June 2003	4	http://www.convertingmagazine.com/article/311331-Curtain_coating_of_adhesives.php	Curtain coating has been practiced industrially for nearly a century but its application to continuous web coating has been limited to high-value, precision coatings	magazine	Converting Magazine						
3138	o	coat;filter	26-Oct-03		Wheeler, James M.	Improving the Filtration Process	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003					AIMCAL						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3137	o	coat;mix	26-Oct-03		Wheeler, James M.	Improving the Mixing Process	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003					AIMCAL						
3170		fluid;mixing	01-Dec-03	1	Wheeler, James M.	Mixing it Up	Paper, Film & Foil Converter, vol 77, no 12, pp 39-42, December 2003	3	http://pffc-online.com/technical_reports/paper_mixing/	If inadequate mixing is the suspected cause of product defects, proper analysis of the process will help pinpoint the root cause.	magazine	Paper Film Foil Converter	Self					
2444		roll handling	22-Oct-79	14	Whitaker, Glenn E.	Handling Large Rolls into Sheeter Unwind Stands	TAPPI Finishing and Converting Conf. Proc., 1979				conference	TAPPI						
2445		drive;tension;torque	01-May-81	3	White, Carl	Motors for Winders and Spooling Drives Present Special Selection	Pulp & Paper, vol 55, no 5, pp 124-126, May 1981				magazine	Pulp and Paper						
2446		steam;dry;condensate;rimming	01-Feb-58	11	White, Robert E. and Higgins, Thomas W.	Effect of Fluid Properties on Condensate Behavior	Tappi J., vol 41, no 2, pp 71-76, February 1958				magazine	TAPPI						
2730		caliper;thickness;measurement	28-Aug-00	12	Whiteman, Rick	Cast and Blown Film Measurement Control Technology and Justification	TAPPI Polymers, Laminations and Coatings Conf. Proc., pp 101-112, Chicago, Aug 28-31, 2000	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5151&DID=523154	implementation of on-line measurement and control are quality and efficiency improvements, which serve as the basis for justification of these measurement and control systems. Payback periods of less than one year	conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2865		film;gage;scanner;measurement	26-Aug-01		Whiteman, Rick	Cast & Blown Film Measurement/Control Technology and Justification	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Diego, Aug 26-30, 2001				conference	TAPPI						
5932		tension;dancer;control	19-Apr-10		Whiteside, Darrel	Understanding Dancer Systems	TAPPI PLACE Conf, Albaquerque, Apr 20-22, 2010	2			conference	TAPPI	Magpower					
3531	o	tension;control	16-Sep-07		Whiteside, Darrell	Basics of Web Tension Control, Summary	TAPPI PLACE Conf, Proc., St Louis, Sept 16-19, 2007	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=11167&DID=558346	take the mystery out of web tension control. It is intended for operators, designers and engineers who would like a better understanding of their existing process and how they might improve both efficiency and consistency	conference	TAPPI	Magpower					
3573	o	control;tension	06-May-08	1	Whiteside, Darrell	The New Technology of Closed Loop Tension Control	Applied Web Handling Conf, AIMCAL AWEB, Minneapolis, May 6-9, 2008				conference	AIMCAL	Magpower					
2448		curl	01-Jan-90	7	Whitsitt, W.J. and Hoerschelman, E.	Liner Oreientation Effects of Combined Board Warp	Tappi J., vol 73, no 1, pp 89-95, January 1990				magazine	TAPPI						
2450		air;automatic control;belt;brake;computer;program;mechanical d	01-Jul-83	8	Whitworth, D. P. D. and Harrison, M.C.	Tension Variations in the Pliable Material in Production Machine	Applied Mathematics Modeling, vol 7, pp 189-196, Jun 1983											

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2451	o	calender	21-Sep-97	2	Whyte, Melanie and Pfieffer, David J. and Young , Alan T. and Lampman, Richard D.	Paper Quality Improvements through Supercalendering with Rolls of High Surface Finish	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 117-118, September 21-24, 1997	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5326&DID=511912	Tungsten carbide flame-sprayed coatings applied to chilled iron rolls not only resist wear but also allow grinding and polishing the rolls to mirror-like surfaces of 0.05 µm Ra (2.0 µin Ra) or better	conference	TAPPI						
2452		flutter;aerodynamics;paper_machine	01-Apr-97	6	Widlund, Ola N.G. et al	Aerodynamics of High-Speed Paper Machines	Tappi J., vol 80, no 4, pp 113-118, April 1997	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4856&DID=518924	Dryer geometry, dryer clothing, and blow boxes affect the aerodynamic flow in a paper machine dryer. Laser doppler velocimetry and computational fluid dynamics provided a study of air flow	magazine	TAPPI						
2453		roll;quality;paper;printing;runnability	17-Oct-82	3	Wilbur, Les E.	Importance of Paper Quality Off the Winder to the Printer	TAPPI Finishing and Converting Conf. Proc., 1982				conference	TAPPI	Meridith Printing					
5630		runnability;winding	01-Jun-83	3	Wilbur, Les E.	Importance of Paper Quality Off the Winder to the Printer	Tappi J., vol 66, no 6, pp 33-35, Jun 1983	1			magazine	TAPPI	Meridith Printing	PaperQualityPrinter	Runnability Scan	doc and pdf	30-Dec-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2455	o	sheet;wrap	06-Oct-91	4	Wilhelms, S.M.	Cut Size Reams: To Wrap or Not to Wrap?	TAPPI Finishing and Converting Conf. Proc., Houston, pp 5-8, Oct 6-10 1991	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5678&DID=516343	Some end users have requested 2500 cut size sheets in a case. These requests have taken two forms--5 of the standard 500 sheet reams wrapped with a kraft paper and 2500 loose sheets	conference	TAPPI						
2456		steam;dry;condensate;rimming	01-Jan-95	9	Wilhelmsson, Bjorn et al	Condensate Flow Inside Paper Dryer Cylinders	J. of Pulp and Paper Scienc, vol 21, no 1, pp J1-J9, January 1995				magazine	J Pulp & Paper Science						
2457		paper;steam;dryer;model	01-Apr-96	11	Wilhelmsson, Bjorn et al	Modeling multicylinder paper drying-validation of a new simulation program	Tappi J., vol 79, no 4, pp 157-167, April 1996	3	http://www.tappi.org/s_tappi/secpublications.asp?CID=4734&DID=518804	A mathematical model was developed for the drying of paper in a multi-cylinder drying section. The model is based on the unsteady state, one-dimensional heat conduction equation, which is applied to both the cylinder shell and the paper web	magazine	TAPPI						
2458		CD;control	01-Jun-82	4	Wilkinson, A.J.	The Role of Automatic Cross-Machine Control in Improving Runnab	Paper Technology Industry, pp 172-175, 191, Jun 1982				magazine	Paper Technology						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5846		wind;stress;model	01-Jun-88	7	Willett, M.S. and Poesch, W.L.	Determining the Stress Distributions in Wound Reels of Magnetic Tape Using Nonlinear Finite Difference Approach	J. of Applied Mechanics, vol 55, pp 365-371, June 1988	2			magazine	J Applied Mechanics		DeterminStressDistributionsTape	WindModel Scan	doc and pdf	28-Nov-09	
2460		wet;strength;fiber;elongation;property	01-Mar-83	4	Williams, D.G.	A Fiber Network Model Theory for the Wet Web Strength of Paper	Tappi J., vol 66, no 3, pp 159-162, Mar 1983				magazine	TAPPI						
3386	o	roller;alignment	07-May-06	1	Williams, Fritz	Alignment Methods and Best Practices for Cost Effective Alignment of Production Equipment	Applied Web Handling Conf, AIMCAL AWEB, Charlotte, May 7-10, 2006				conference	AIMCAL	OASIS					
2461		nip;safety;accident;liability	23-Oct-72		Williams, G.M.	Nip Hazards in the Paper Industry	TAPPI Finishing and Converting Conf. Proc., 1972				conference	TAPPI						
3205	o	clean_room:coating	25-Oct-04	1	Williams, Greg	Cleanroom Coating	AIMCAL Fall Tech Conf, Charleston SC, Oct 24-27, 2004					AIMCAL	Intellicoat					
2462		wind	01-Oct-90		Williams, J.	Custom Machines Fitting the Needs of the Job	Converting World, Oct-Nov 1990											
3441		coating;contract;toll	23-Oct-06	1	Williams,Greg and Gogolin, Larry	Contract Coating	AIMCAL Fall Tech Conf Proc, Reno, October 22-25, 2006					AIMCAL	Intellicoat					
5631		runnability;winder;edge_crack;sheet_break;detector	01-Oct-94	2	Williamson, Mark	Domtar Mill Reduces Winder Breaks Using Edge-Fault Detection System	Pulp & Paper, pp 101-102, October 1994	2			magazine	Pulp and Paper	Self	WinderBreakEdgeDetect	Runnability Scan	doc and pdf	30-Dec-09	
2741		tissue;dust_collect;filter	01-Oct-00	4	Williamson, Mark	Wet Dust Collection System Eliminates Duct Fire Hazard at Scott Tissue Mill	Pulp & Paper, vol 74, no 10, pp 73-75, October 2000.				magazine	Pulp and Paper						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
5594		roller;nip_impression;electronic;crown;maintenance	01-May-03	4	Williamson, Mark	Electronic Nip Impression Facilitates Faster Roll, Nip and Crown Diagnostics	Pulp & Paper, vol 77, no 5, pp 50-53, May 2003.	3			magazine	Pulp and Paper	Self	ElectronicNipImpressionWilliamson	RollerScan	doc and pdf	04-Dec-09	unusual
3474	o	reel;density;wind;nip;load_cell	01-Mar-07	4	Williamson, Mark	Reel Density Optimization System Reduces Paper Loss on Reel Spools	Pulp & Paper, vol 81, no 3, pp 38-41, March 2007				magazine	Pulp and Paper						
6085		caliper;measurement;quality;sensor	01-May-11	3	Williamson, Mark	Optical Caliper Sensing Comes of Age	Pulp and Paper International, pp 13-17, May 2011	4	http://www.ppimagazine.com/ppiissue/201105/?sub_id=MH8jZvdwMlzY		magazine	Pulp and Paper International	Self					
2464		nip;stress;contact;impact	01-Jan-86	8	Willis, J.R.	Hertzian contact of Anisotropic Bodies	J. Mech. Phys. Solids, vol 15, pp 163-176, 1966				magazine							
2465		trim ;noise	01-Jan-85		Wilson, D.J.	Trim Removal Systems for Winding and Converting Machines	Converting World, no 11, pp 4-5											
2466	o	test;qc	24-Oct-93	2	Wilson, F.	ISO 9000 - Finishing and Converting Impact	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 149-150, Oct 24-27 1993				conference	TAPPI						
2467	o	roll;handling	18-Oct-92	2	Wilson, F.R.	Common Sense Handling	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 89-90, Oct 18-21 1992				conference	TAPPI						

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2867		roller	26-Aug-01		Wilson, Richard and Polston, Wally	Roller Technology for Extrusion - Reaching New Heights in Substrate Quality and Roller Longevity	TAPPI Polymers, Laminations and Coatings Conf. Proc., San Diego, Aug 26-30, 2001	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5114&DID=524866	Advancements in elastomeric and hard-coat roller covering technologies have been made which help extruders meet these challenges. Improvements in covering materials, design, manufacturing and finishing techniques	conference	TAPPI						
2468		oven;dry;air_float	01-Jan-91		Wimberger, Richard J.	New Flotation Drying Techniques	International Review for the Pulp and Paper Industry, 1991						CA Litzler					
3449		dryer;air_float	23-Oct-06	1	Wimberger, Richard J.	Impact of flotation nozzle design on web handling	AIMCAL Fall Tech Conf Proc, Reno, October 22-25, 2006					AIMCAL	CA Litzler					
2469		slitting	02-Oct-78	3	Wingen, Peter	The Technique of Longitudinal Slitting with Circular Knives	TAPPI Finishing and Converting Conf. Proc., 1978				conference	TAPPI						
5514		measure;caliper;paper	01-Sep-83	3	Wink, W.A. and Baum, G.A.	A Rubber Platen Caliper Guage - A New Concept in Measuring Paper Caliper	Tappi J., vol 66, no 9, pp 131-133, Sep 1983	3			magazine	TAPPI	IPC	RubberPlatenCaliperGauge	MeasurementScan	doc and pdf	30-Dec-09	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2471	o	sheet;cut;quality;measure;camera	04-Oct-98	6	Wise, Jeffrey D.	An Automated Method for Evaluating the Edge Quality of Cut-Sheet papers	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 153-158, October 4-8, 1998	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5255&DID=509148	developed an automated method and instrument for measuring the edges of GP's cut-sheet papers. Using an 11 X 17 – inch tabletop scanner, a PC, and specialized image analysis software (Spec*Edge	conference	TAPPI						
2472		paper;property;friction	01-Apr-91		Withiam, M.C.	The Effect of Fillers on on Paper Friction	Tappi J., vol 74, no 4, Apr 1991	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5515&DID=522855	impact of fillers, several types, including hydrous kaolin, calcined kaolin, talc, as well as, synthetic precipitated silica and silicate (PSS) pigments, were studied using the horizontal plane method of friction measurement	magazine	TAPPI						
2473		roll structure;	25-Apr-74	4	Witting, K.	Syromat T -- A New Two-Drum Winder	Paperi Puu, vol 56, no 4a, pp 275-278				magazine							

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2474	o	roll;ship;handle;damage	24-Oct-93	2	Woerner, T.	No One Wins with Damage	TAPPI Finishing and Converting Conf. Proc., New Orleans, pp 85-86, Oct 24-27 1993	3		Freight damage cost the American railroads over $10,000,000 in 1993 and the cost to railroads and paper mills in lowered customer satisfaction is incalculable	conference	TAPPI						
3075	o	slitting;paper	01-Jun-03	8	Wofe, E. and Welp, E.G. (Ruhr Univ)	Optimized Slitting Parameters for the Shear-Slitting of Paper	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 2003.					WHRC						
2475		air entrainment;roller;surface roughness	13-Jul-88	5	Wolf, B. and Deshpande, N. and Castelli, V.	The Flight of a Flexible Tape Over a Cylinder With a Protruding	J. of Lubrication Technology, Transactions of the ASME				magazine							
14142		winder;automation	09-Sep-16	1	Wolf, Randy	A SLITTER REWINDER'S FOCUS ON PURE PRODUCTIVITY AND PROFITABILITY	AIMCAL Fall US Web Conf, Memphis, Sept 9-12, 2016	2			conference	AIMCAL	Kampf					
9812		corona_treat	10-Jun-12		Wolf, Rory	Game-changing Surface Pre-Treatment Technology	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Enercon					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
9849		treat;corona	22-Oct-12		Wolf, Rory	Cummulative Surface Treatments	AIMCAL Web Coating Conference, Myrtle Beach, Oct 22-24, 2012			potential to overtreat and lose some, if not all, of surface treatment benefits. Combined atmospheric treatment and vacuum plasma treatments were carried out on OPP & PET and the coatings evaluated	conference	AIMCAL	Enercon					
3425	o	corona_treat	18-Sep-06		Wolf, Rory A.	Troubleshooting Corona Treatment Issues	TAPPI PLACE Conf, Cincinnati, September 17-21, 2006				conference	TAPPI	Enercon					
3529	o	corona_treat	16-Sep-07		Wolf, Rory A.	Troubelshooting Corona Treatment Issues	TAPPI PLACE Conf, Proc., St Louis, Sept 16-19, 2007	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=11167&DID=558342	corona treating equipment back on-line quickly to generate value-adding product for converting lines. Possible maladays such as backside treatment and surface over-treatment	conference	TAPPI	Enercon					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
3696		plasma_treat	01-May-09	4	Wolf, Rory A.	Plasma Power	Paper, Film & Foil Converter, vol 83, no 5, pp 28-31, May 2009	3	http://pffc-online.com/surface_prep/corona_flame_plasma/paper-plasma-power-0509/	Confused by the terminology surrounding surface treatment? Learn how corona, gas corona, and true atmospheric plasma treaters differ to find the best system for you.	magazine	Paper Film Foil Converter	Enercon					
5847		wind;stress;model		15	Wolfermann, Werner	Favorable Characteristics of Web Traction While Winding Elastic Webs	report	2			report	author	Univ of Munich	FavorableCharacteristicsTraction	WindModel Scan	doc and pdf	28-Nov-09	
2477			01-Aug-88		Wolfermann, Werner	Gunstige Kennlinien der Balmzug-Kraft beim Wickeln von elastisc	Papier und Kunststoff-Verarbeiter, Aug 1988						Univ of Munich					
2478	o	tension;drive;control;model	18-Jun-95	30	Wolfermann, Werner	Tension Control of Webs - A Review of the Problems and Solutions in the Present and Future	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC	Univ of Munich					
2476	o	tension;control	01-Jun-97		Wolfermann, Werner	Sensorless Tension Control of Webs	4th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 1-4, 1997.					WHRC	Univ of Munich					
2581	o	tension;drive;dynamic;model	06-Jun-99	18	Wolfermann, Werner	Compensation of Disturbances in the Web Force Caused by a Non-Contact Circular Running Winder	5th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 6-9, 1999.					WHRC	Univ of Munich					

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5848		wind;stress;model	16-Mar-87	14	Wolfermann, Werner and D. Schroder	Web Forces and Internal Tensions for the Winding of an Elastic Web	Winding Technology Conf. Proc., Swedish Newsprint Research Center (TFL), Stockholm, Mar 16-171986	2			conference	STFI	Univ of Munich	WebForcesInternalTensions	WindModelScan	doc and pdf	28-Nov-09	
2480		tension;control;model	01-Jan-87		Wolfermann, Werner and Schroder, D.	Application of Decoupling and State Space Control in Processing Machines with Continuous Moving Webs	Proc. Int'l Federation of Automatic Control Congress, Munich, 1987						Univ of Munich					
2481	o	tension;drive;control;model;fuzzy	06-Jun-93	16	Wolfermann, Werner and Schroeder, D.	New Decentralized Control in Processing Machines with Continuous Moving Webs	2nd Int'l Conf. on Web Handling, Oklahoma State Univ, June 6-9 1993					WHRC	Univ of Munich					
2482		control;expert_system	01-Apr-96	5	Wollard, Rex and Jury, James and Clark, Chris	An expert system advises operators on process control conditions	Tappi J., vol 79, no 4, pp 137-141, April 1996				magazine	TAPPI						
2483		auto-slitter	30-Jan-79		Wong, George H.	Remote-Set Slitters for High-Production Winders	CPPA Annual Mtg (Montreal) Preprints 65A, pp 223-225				conference	CPPA	Beloit					
2484		reel;auto-slitter;automation	01-Apr-79	6	Wong, George H.	Automating Reel Winder Operations Cuts Work Load and Raises	Pulp & Paper, vol 53, no 4, pp 104-109, Apr 1979				magazine	Pulp and Paper	Beloit					
5788		wind;productivity;time_cycle	01-Oct-79	4	Wong, George H.	High-Production Winding Systems for Today's High-Speed Paper	Pulp & Paper, vol 53, no 11, pp180-184	2			magazine	Pulp and Paper	Beloit	WindingHighSpeedWong	WindGeneralScan	doc and pdf	07-Nov-09	
6060	o	roller;alignment;inertial;measurement	13-Jun-11		Woo, C.	The Advantages of Inertial Roll Alignment Device in Eliminating Web Handling Issues	11th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 13-15				conference	WHRC	Pruftechnik					
2486			01-Jan-55		Wood, George B. Jr.	Sheet Guiding Apparatus	U.S. Patent #2,722,415 (1955)				patent							

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3052	c	paper;lint;dust	01-Sep-95	5	Wood, J.R. and Grondin, M. and Shallhor, P.M. (Paprican)	Evaluation of the Macmillan Bloedel On-Line Lint Test	Pulp and Paper Canada, vol 96, no 9, pp T318-323, September 1995				magazine	Pulp and Paper Canada						
3530	o	shear_slitting	16-Sep-07		Wood, Peter	Optimizing the Shear Slitting Process	TAPPI PLACE Conf, Proc., St Louis, Sept 16-19, 2007				conference	TAPPI	Tidland					
14167		blown;film;oscillation	01-Sep-13	10	Worberg, J and Heinzler, FA	Optimized build-up of film rolls by enhanced reversion control	J of Plastics Technology, Sept 2013	4			magazine	J of Plastics Technology						
2487	o	paper_machine;suction;pressure;rollers	21-May-96	8	Worcester, Brian	Operation of Cutions Pressure Rolls on Tissue Machines	TAPPI Tissue Runnability Shortcourse, Perdido Beach, AL, May 21-23, 1996				shortcourse	TAPPI						
2488	o	wind;rebuild	18-Oct-92	14	Worley, Robert W. and Bagnato, Luigi	Rebuild of a Paper Machine Winder	TAPPI Finishing and Converting Conf. Proc., Nashville, pp 63-76, Oct 18-21 1992	3	http://www.tappi.org/s_tappi/doc_bookstore.asp?CID=5630&DID=516964	paper examines the planning and investigation to determine the scope of a potential rebuild and compares that scope to a complete replacement with a new winder	conference	TAPPI	Beloit					
5789		wind;productivity;time_cycle	01-Apr-93	10	Worley, Robert W. and Bagnato, Luigi	Rebuild of a Paper Machine Winder	Tappi J., vol 76, no 4, pp 126-133, Apr 1993	2			magazine	TAPPI	Beloit	RebuildPaperWinder	WindGeneralScan	doc and pdf	07-Nov-09	
2490	o	vibration;roller;book	01-Jan-91	360	Wowk, Victor	Machinery Vibration, Measurement and Analysis	McGraw-Hill, 1991	10			Book							
2491	o	vibration;roller;balance;book	01-Jan-95	320	Wowk, Victor	Machinery Vibration, Balancing	McGraw-Hill, 1995	10			Book							
2492		drive;torque;mechanical	01-Oct-96	5	Wozniak, Mike	Torque Measurement System Helps Pinpoint Machine Drive Problems	Pulp & Paper, pp 65-69, October 1996				magazine	Pulp and Paper						

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2493		web_handling	01-Jan-92		Wright, D.	Web handling - Matching the Method to the Material	Converting Technology International, 1992											
2494		guide	11-May-67		Wright, Gerard	How to Make Belts Track	Machine Design, May 11 1967				magazine							
5850		wind;stress;model	01-Jul-87	89	Wu, Zahn	A Treatise of Wound Roll Models: The Current Art	OK. State Univ., WHRC, Report Thesis, Dec 87	3			report	WHRC	WHRC	TreatiseWoundRollModel	WindModel Scan	doc and pdf	22-Dec-09	
5849		wind;stress;model	31-May-89	18	Wu, Zahn	A Modified Nonlinear Winding Model	internal report	2			report	WHRC	WHRC	ModifiedNonlinearModel	WindModel Scan	doc and pdf	28-Nov-09	
2495	o	wind;model	01-Jul-87	86	Wu, Zhan	A Treatise of Wound Roll Models: The Current Art.	OK. State Univ., WHRC, Internal Report				report	WHRC	WHRC					
2496		Bibliography	18-Mar-88	17	Wu, Zhan	A Partial List of Literature on Webs and Web Handling	OK. State Univ., WHRC, Internal Report				report	WHRC	WHRC					
5851		wind;stress;model	28-Feb-80	11	Yagoda, H.P.	Integral Formulas for Wound Rolls	Mechanics Research Communications, vol 7, no 2, pp 103-113, 1980	1			report	Pergamon Press		IntegralFormulasWoundRolls	WindModel Scan	pdf	28-Nov-09	
5852		wind;stress;model	01-Mar-80	13	Yagoda, H.P.	Centrifugally Induced Stresses Within Center Wound Rolls - Part I	Mechanics Research Communications, vol 7, no 3, pp 181-193, 1980	1			report	Pergamon Press		CentrifugallyInducedStresses1	WindModel Scan	pdf	28-Nov-09	
5853		wind;stress;model	01-Apr-80	13	Yagoda, H.P.	Centrifugally Induced Stresses Within Center-Wound Rolls - Part II	Mechanics Research Communications, vol 7, no 4, pp 233-240, 1980	1			report	Pergamon Press		CentrifugallyInducedStresses2	WindModel Scan	pdf	28-Nov-09	
5855		wind;stress;model	01-Feb-81	3	Yagoda, H.P.	Generalized Formulas for Stresses in Wound Rolls	Tappi J., vol 64, no 2, pp 91-93, Feb 1981	1			magazine	TAPPI	Exxon	GeneralizedFormulasStresses	WindModel Scan	pdf	28-Nov-09	
5854		wind;stress;model	18-Mar-88	6	Yagoda, H.P.	Resolution of Core Problem in Wound Rolls	J. of Applied Mechanics, Transactions of the ASME, vol 47	1			magazine	J Applied Mechanics		ResolutionCoreProblem	WindModel Scan	pdf	28-Nov-09	
2502		caliper;measurement	01-May-89		Yamauchi, T.	Compressibility of Paper Measured by Using a Rubber Platen Thickness Gauge	Appita, May 1989				magazine	APPITA						

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2503		flutter;model	01-Mar-91		Yang, B. and Mote, C.D.	Active Vibration Control of the Axially Moving String in the S. Domain	J. of Applied Mechanics, Mar 1991				magazine	J Applied Mechanics						
9977		lateral;guide			Yang, H and Muftu, S	Lateral Tape Dynamics over Non-linear Guides	Proc of ASME Micromechatronics				journal							
3715	o	tension;model	07-Jun-09	17	Yang, Ming	A Process Direction Dynamic Moel for High Precision Web/Belt Transport Systems	10th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 7-10, 2009					WHRC						
9975		model	01-Jan-94		Yang, RJ	Steady Motion of a Thread over aRotating Roller	J of Applied Mechanics, no 61, pp 16-22, 1994				journal							
2504		paper;test;automation	01-Apr-91		Yeager, B.	Controlling Quality with Automated Paper Testing	Pulp & Paper J., Apr 1991				magazine							
2505		wind;rebuild	01-Oct-90		Yeager, R.L.	... Upgrades Winder Operations	Pulp & Paper, vol 64, no 10, Oct 1990				magazine	Pulp and Paper						
5632		runnability;winder;edge_crack;sheet_break;camera	01-Sep-02	3	Yeldell, Thomas and Kelly, Phillip and Sullivan, Scott	Camera System Isolates Web Breaks, Boosts Efficiencies at Boise Cascade	Pulp and Paper, pp 45-47, September 2002	3			magazine	Pulp and Paper	Boise	CameraWebBreak	Runnability Scan	doc and pdf	30-Dec-09	
2506		stainless;roller;corrosion;fatigue;test	01-Aug-94	8	Yeske, Ronald M. and Revall, Mark A. and Thompson, Craig M.	Corrosion-assisted cracking of duplex stainless steels in suction roll applications	Tappi J., vol 77, no 8, pp 210-217, Aug 1994				magazine	TAPPI						
2507		wind;roller;eccentricity;acoustic;vibration	01-Nov-85		Yi, S.	Ultrasonic Application in Measuring of the Radius of an Eccentric Roll	OK. State Univ., WHRC, M.S. Thesis				thesis	WHRC						

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9823		coat	10-Jun-12		Yializis, Angelo	Super Hudrophobic and Oleophobic Finish for Woven and Nonwoven Textiles Applied Without Use of Solvents and Water	AIMCAL Web Coating Conference, Prague, Jun 10-15, 2012				conference	AIMCAL	Sigma Technologies, Inc					
6102		printing;press;register;model	01-Jan-08	4	Yoshida, T. and Takagi, S. and Muto, Y. and Shen, T.	Register Control of Sectional Drive Rotogravure Printing Press	Manufacturing Systems and Technologies for the New Frontier, Springer, pp 417-422, 2008				conference							
3741		roller;carbon_fiber	01-Jul-01		Yoshiya, A	Characteristics and Applications of Pitch-Based Carbon Rollers	Paper Film and Foil Convertech Pacific, July 2001											
2508	o	calender	21-Sep-97	8	Young, Alan	Supercalendar Debottlenecking for Increased Production and Lower Operating Costs Using Poloymer Roll Technology	TAPPI Finishing and Converting Conf. Proc., Washington DC, pp 15-22, September 21-24, 1997	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5326&DID=511821	This paper will discuss the options considered for increasing supercalender capacity, the route selected and the results achieved. The possibilities for future development will also be discussed	conference	TAPPI						
2509		tension;vibration;model	18-Jun-86		Young, Gary E. and Lowery, Richard L. and Plummer, D.W.	Longitudinal Dynamics of the Rewind Portion of a Web Handling Machine	American Control Conf. Proc., Seattle, Jun 18-20 1986						WHRC					
2510			27-Apr-88	12	Young, Gary E. and Lowery, Richard M. and Plummer, D.W.	Longitudinal Dynamics of the Rewind Portion of a Web Handling Machine	OK. State Univ, WHRC, Internal Report				report	WHRC	WHRC					

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2511			08-Aug-88	30	Young, Gary E. and Shelton, John J. and Fang, B.	Interaction of Web Spans: Part II, Dynamics	OK. State Univ, WHRC, Internal Report					WHRC	WHRC					
2513		lateral;guide;model	01-Sep-89		Young, Gary E. and Shelton, John J. and Fang, Bin	Interaction of Web Spans: Part I - Statics	ASME Journal of Dynamic Systems, Measurement and Control, Sep 1989						WHRC					
2512		lateral;guide;model	01-Sep-89		Young, Gary E. and Shelton, John J. and Fang, Bin	Interaction of Web Spans: Part II - Dynamics.	ASME Journal of Dynamic Systems, Measurement and Control, Sep 1989						WHRC					
2514		guide;tracking;control;state estimation	01-Sep-89	30	Young, Gary E. and Shelton, John J., and Kardamilas, C.	Modeling and Control of Multiple Web Spans Using State Estimation	ASME Journal of Dynamic Systems, Measurement and Control, Sep 1989						WHRC					
2515	c	lateral;guide;control;model	01-Sep-89	10	Young, Gary E. et al	Modeling and Control of Multiple Web Spans Using State Estimation	Journal of Dynamic Systems, Measurement, and Control, Sep 1989						WHRC					
2516		lateral;guide;control;model	01-Nov-92	8	Young, Gary E., and Shelton, John J., and Fang, Bin	A Lateral Web Limit Cycle Caused by an Air Bar	ASME Winter Annual Meeting, Anaheim, CA, November 1992						WHRC					
2517		accident;injury;liability	17-Oct-77		Young, R.W.	What You Can't See Can Hurt You	TAPPI Finishing and Converting Conf. Proc., 1977				conference	TAPPI						
3497	o	wind;model;viscoelastic	10-Jun-07	8	Yu, H. and Poh, E. and Good, J.K.	Mechatronic Damping for Contact Rolls is Film Winders	9th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 10-13, 2007					WHRC						
9919	o	roller;diamter;taper;guide;stress;wrinkle	01-Nov-12	10	Yurtcu, H.H. and Beisel, J.A. and Good, James K.	The Effect of Roller Taper on Webs	TAPPI Journal, pp 31-38, November 2012	4			magazine	TAPPI	WHRC	RollerTaperGood	RollerScan	doc	05-Nov-12	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
2518	o	trim	07-Oct-90	2	Zacary, R.M. Jr.	High Speed Winder Trim Systems / Housekeeping	TAPPI Finishing and Converting Conf. Proc., Lake Buena Vista FL, pp 237-238, Oct 7-10 1990	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5730&DID=515341	A winder running at 7,500 fpm with 4-inch trim at 33 pounds per 1,000 FPM, both sides, produces 165 pounds of trim per minute. At 3 pounds of air per pound of paper, we would require 495 pounds of air or 6,600 FPM. What happens to all of this air	conference	TAPPI						
6071	o	drying;measure;model;lab	01-Feb-11	6	Zagar, Steve and Bemi, Dan	Drying laboratory methods for the development of complex empirical drying data	Converting Quarterly, AIMCAL, pp 54-58, Feb 2011	5	http://www.mydigitalpublication.com/publication/?i=61538	model / measure technique for characterizing solvent mass transport	magazine	AIMCAL	MEGTEC Systems	LabDryMethodMegtec	MiscScan	doc	24-May-11	
6027	o	dryer;rate;design;application;lab;sizing	01-Feb-11	6	Zagar, Steven and Bemi, Daniel and Quass, Jeffery	Drying laboratory methods for the development of complex empirical drying data	Converting Quarterly, AIMCAL, pp 54-58, Feb 2011	5		sizing dryers for a particular coating and substrate using lab methods	magazine	AIMCAL	MEGTEC Systems					
2519	o	roller;traction;band-brake	01-Jun-95	16	Zahlan, N. and Jones, D.P.	Modeling Web Traction on Rollers	3rd Int'l Conf. on Web Handling, Oklahoma State Univ., June 18-21, 1995					WHRC						
2520		wrinkle;model	01-Jan-82	13	Zak, M.	Statics of Wrinkling Films	J. of Elasticity, 12, pp 51-63, 1982				magazine							
2645	o	calender;temperature	03-Oct-99	14	Zakaib, S	Paper Mill Results … of High-Temperature Supercalendering of Coated Paper	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 41-54, October 3-7, 1999	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5187&DID=508198	Zakaib	conference	TAPPI						

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2521	o	calender;temperature;lwc	04-Oct-98	8	Zakaib, S et al	Optimizing Coated Paper Operations through High-Temperature Supercalendering	TAPPI Finishing and Converting Conf. Proc., Minneapolis, pp 217-224, October 4-8, 1998	2	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5255&DID=509156	This paper will discuss high-temperature supercalendering trials held in cooperation with several major European high-quality coated paper producers	conference	TAPPI						
2522	o	calender;roller;heated	01-Oct-89	6	Zaoralek, M.	The Application of Different Designs of Heated Calender Rolls	TAPPI Finishing and Converting Conf. Proc., Kansas City MO, pp 153-158, Oct 1-5 1989				conference	TAPPI						
2523	o	calender;soft	07-Oct-90	8	Zaoralek, M.	Hot Rolls for Soft Calendering: Meeting the Operator's Needs	TAPPI Finishing and Converting Conf. Proc., Lake Buena Vista FL, pp 41-48, Oct 7-10 1990	3	http://www.tappi.org/s_tappi/docbookstore.asp?CID=5730&DID=515342	peripherally drilled roll and gives the reasons. It considers a new chilled cast-iron material for high heat transfer, the arrangement of the peripheral passages for the thermal fluid and the connecting channels in the journals	conference	TAPPI						
2525		calender;heat;roller	01-Jan-91		Zaoralek, M.	Improved High Temperature Calender Roll	Canadian Pulp and Paper Assoc, 77th Annual Mtg.				magazine	Canadian Pulp & Paper Ind						
2524		calender;heat;roller	01-Jan-91		Zaoralek, M.	Improved High Temperature Calender Roll	Dtsch. Papierwirtsch., Jan 1991											
2888	o	waste	22-Oct-01		Zarkoski, Alan	Savings in Waste Management	AIMCAL Fall Tech Conf, Oct 22-24, 2001					AIMCAL						
2526			01-Jan-82		Zeichner, G.R. et al	On-Line Viscoelastic Measurements for Polymer melt Process	SPE Technical Paper, pp 29, 1982											

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3209	o	tension;control	25-Oct-04	1	Ziatic	Innovative Tension Control Solution Leads to Productivity in a Lamination Process	AIMCAL Fall Tech Conf, Charleston SC, Oct 24-27, 2004					AIMCAL	Magpower					
3276		cut;perf;film;knife	01-Mar-05	3	Zimmer, Greg	Taming Plastics	Paper, Film & Foil Converter, vol 79, no 3, pp 142-147, March 2005	4	http://pffc-online.com/mag/taming_plastics/	Options for Cutting	magazine	Paper Film Foil Converter						
3153	o	drive;tension;control	26-Oct-03		Zlatic, Michael R.	The New Technology of Closed Loop Tension Control and Its Benefits to the Product and Operator (Magnetic Power Systems)	AIMCAL Fall Tech Conf, Santa Ana Pueblo, NM, Oct 26-29, 2003					AIMCAL						
2527		hardness;test;roll structure;impact		10	Zoldners, N.G.	Calibration and Use of Impact Test Hammer	J. of the American Concrete Institute, vol 29, no 2, Aug				magazine							
5856		wind;stress;model	28-Jun-65	14	Zsombor-Murray, P.J.	Generalized Formulas for Stresses in Wound Rolls	Unpublished paper presented at Wood and Fibre Physics Research Lab	1			report	author	McGill Univ	Tangential RadialStresses	WindModel Scan	pdf	28-Nov-09	
5554		moisture;humidity;test;lab;strength;condition	01-Jan-89	4	Zubryn, Eugene	Conditioned Test Rooms Design, Layout and Equipment	Appita, vol 42, no 1, pp 52-56, Jan 1989	3			magazine	APPITA	A.P.M.	HumidityTestLabCondition	MoistureScan	doc and pdf	17-Sep-09	
2530		wind;shaft;composite;safety	01-Jan-93	2	Zuck, Robert A.	Using Composites in Shafts Turning into Weighty Issue	Paper, Film & Foil Converter, vol 67, no 1, pp 60-61, Jan 1993				magazine	Paper Film Foil Converter	Zimmer Industries					
2531		core_shaft;roller;composite	01-Jan-94	2	Zuck, Robert A.	Composites Gaining Ground in Converting Applications	Paper, Film & Foil Converter, vol 68, no 1, pp 41-42, Jan 1994				magazine	Paper Film Foil Converter						
5698		tissue:winder;vibration;measurement;throwout	01-Jan-03	6	Zwart, Jake and Tarnowski, Walkter	Winder Vibration Related to Set Throw-outs	PAPTAC 89th Annual Meeting, 2003	4			magazine	PAPTAC	LSZ Paper Tech and NorskeCanada	WinderVibrationThrowoutZwart	VibrationScan	doc and pdf	03-Oct-09	

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5902		roller;nip_impression;measurement;crown	01-Jul-97		Zwinak, Joseph A.	Techniques for nip impressions	TAPPI JOURNAL, July 1997, Vol. 80(7)	4	http://www.tappi.org/s_tappi/sec_publications.asp?CID=4862&DID=518696	reviews the need for nip impressions, the various media available to perform the work, general instructions for taking the impressions, information to analyze the results, and discussion of a crown correction equation based on nip impression measurements	magazine	TAPPI						
		clean;static	25-Apr-17		Ferchow, Miosz	Key Factors in Selecting Correct Web Cleaning System	ICE USA 2017 Tech Program	4			conference	AIMCAL	Meech International					
		roller;maintenance;alignment	25-Apr-17		Best, Ryan	Line-of-Sight, Out of Mind: Inertial Roll Alignment	ICE USA 2017 Tech Program	2			conference	AIMCAL	Pruftechnik					
		static;control;maintenance;clean	25-Apr-17		Robinson, Kelly	Static Control Best Practices for Converting	ICE USA 2017 Tech Program	3			conference	AIMCAL	Self					
		slitting;maintenance;quality	25-Apr-17		Rumson, David	21 Potential Slitting Process Improvement Steps	ICE USA 2017 Tech Program	3			conference	AIMCAL	Self					
		wind;guide;oscillation	25-Apr-17		Roisum, David R	A Study of Oscillation	ICE USA 2017 Tech Program	4			conference	AIMCAL	Self					
		guide;edge;sensor	25-Apr-17		Seshadri, Aravind	Recent Advances in Sensing and Control of Webs	ICE USA 2017 Tech Program	4			conference	AIMCAL	Roll-2-Roll					
		wind;unwind;splice	25-Apr-17		Smith, R Duane	Continuous Splicing Techniques	ICE USA 2017 Tech Program	4			conference	AIMCAL	Davis-Standard					
		roller;maintenance;alignment	25-Apr-17		Smith, Myron	The importance of Machine Alignment to the Future of Converting	ICE USA 2017 Tech Program	3			conference	AIMCAL	OASIS					

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		roller;maintenance;alignment;nip;sensor	25-Apr-17		Aladro, Camilo	Ensure Roll Alignment with the Nip Pressure Alignment Tool	ICE USA 2017 Tech Program	3			conference	AIMCAL	Tekscan					
		adhesion, model	01-Apr-17	2	Abbott, Steven	How does entanglemenet result in strong adhesion	Converting Quarterly, qtr 2, 2017	2			magazine	AIMCAL	self					
		slit;wind	01-Apr-17	2	Rumson, David	What are some slitting and winding conditions that should raise alarms	Converting Quarterly, qtr 2, 2017	2			magazine	AIMCAL	self					
		baggy;camber;caliper;measure;troubleshoot	01-Apr-17	5	Roisum, David R.	How to troubleshoot laminate bagginess	Converting Quarterly, qtr 2, 2017	5			magazine	AIMCAL	self					
		roller;span;design	01-Jan-17	1	Roisum, David R.	What is the optimum span between rollers?	Converting Quarterly, qtr 1, 2016	4			magazine	AIMCAL	self					
		wind;expandable;coreshaft;fit;wobble;vibration	01-Apr-17	5	Koppes, Eric	Increasing web throughput with core-centering shafts	Converting Quarterly, qtr 2, 2017	4			magazine	AIMCAL	self					
		wind;diameter	01-Apr-17	1	Roisum, David R.	What are the top concerns in specifying wound roll diameter	Converting Quarterly, qtr 2, 2017	4			magazine	AIMCAL	self					
		wrinkle;roller;diameter	01-Aug-17	1	Roisum, David R.	Why do wrinkles sometimes go away as the wound roll builds	Converting Quarterly, qtr 3, 2017	4			magazine	AIMCAL	self					
		slit;wind	01-Aug-17	1	Rumson, David	How do we better control slittter setup	Converting Quarterly, qtr 3, 2017	2			magazine	AIMCAL	self					
		slit	01-Aug-17	6	Rumson, David	The evolution of web slitting and automatic positioning systems	Converting Quarterly, qtr 3, 2017	4			magazine	AIMCAL	self					
		wind;automation;tape	01-Aug-17	6	Pappas, Michael	Three automated systems for attaching slit webs to cores and securing last wraps	Converting Quarterly, qtr 3, 2017	4			magazine	AIMCAL	Catbridge					
		wind;nip	01-Aug-17	5	Connelly, Joseph	Constant geometry leads to preditable wound roll structure	Converting Quarterly, qtr 3, 2017	3			magazine	AIMCAL	Parkinson					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
	o	tension;control;model;out-of-round	04-Jun-17		Pagilla, Prabhakar	Web Transport Modeling and Control: Historical and Current Perspective	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	4			conference	WHRC	WHRC					
	o	tension;registration;print;model	04-Jun-17		Rices, Brian S and Walton, Robert L	Machine Direction Registration Dynaics Model of a Rotary Printing Press	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	4			conference	WHRC	Rochester Institue of Tech					
	o	tension;dancer;control	04-Jun-17		Oedl, Gunter	Calculation of Film Tension from Film Position and Roller Position	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	4			conference	WHRC	Bruckner Machne					
	o	splice;tension;model	04-Jun-17		Pagilla, Prabhakar	Modeling and Computer Simulation of Zero Speed Splice Unwinds	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	4			conference	WHRC	WHRC					
	o	roller;design;diameter	04-Jun-17		Lynch, Roland J	Modeling and Computer Simulation of Zero Speed Splice Unwinds	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	4			conference	WHRC	consult					
	o	windi;oscillation;caliper;variation	04-Jun-17		Roisum, David R	A Study of Oscillation	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	4			conference	WHRC	consult					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
	o	wind;nip;model	04-Jun-17		Mollamahmutoglu, Cagri, Goodk, JK,, Markum, Ronald and Cole, JW	Nip Impinged Center-winding Including a Nonlinear Beam Model	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	4			conference	WHRC	WHRC					
	o	wind;model;stress;defect	04-Jun-17		Thuer, Amy	Using a Winding Model to Reduce Winding Defects	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	5			conference	WHRC	Avery Dennison					
	o	wind;model;lamination	04-Jun-17		Pan, Shen and Markum, Ronald and Good, JK	The Winding Mechanics of Lamiante Webs	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	4			conference	WHRC	WHRC					
	o	tension;model	04-Jun-17		Brown, Jerry L	The Effect of Mass Transfer on Multi-Span Lateral Dynamics of a Uniform Web	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	4			conference	WHRC	WHRC					
	o	tension;model	04-Jun-17		Brown, Jerry L	The effect of Mass Transfer on Multi-Span Lateral Dynamics of a Uniform Web	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	4			conference	WHRC	WHRC					
	o	baggy;camber;measure	04-Jun-17		Swanson, Ronald P.	Measurement and Quantification of Baggy Webs	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	5			conference	WHRC	3M					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
	o	wrinkle;model	04-Jun-17		Fu, Boshen and Gilgenback, Eric and Nackers, Katies and Brumm, Russ	Explicit Simulation of Wrinkle Formation Due to Web Non-Uniformity	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	4			conference	WHRC	Kimberly-Clark					
	o	caliper;variation;wrinkle;model	04-Jun-17		Hamm, Rich and Carrie, Jeremy and Lange, Steven	Wrinkling Mechanisms of Non-Wovens with Sspatially Varying Material Properties	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	4			conference	WHRC	Procter & Gamble					
	o	traction;friction;roller;model	04-Jun-17		Jones, Dilwyn P	A New Model for the Steady State Deformation and Friction of Webs on Rollers	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	4			conference	WHRC	consult					
	o	nano;r2r	04-Jun-17		Guo, L Jay	The Path to Roll-to-rollll Nanoimprinting and Future Opportunities	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	4			conference	WHRC	university of Michigan					
	o	nip;mechanics;nano;r2r	04-Jun-17		Ren, Yao and Good, JK	The Nip Mechanics of Nano-Impression Lithography in Roll-to-Roll Processes	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	4			conference	WHRC	whrc					
	o	lateral;guie;model	04-Jun-17		Torres, Edison OC and Pagilla, Prabhakar R	Spatially Dependent Transfer Functions for Web Lateral Dynamics	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	4			conference	WHRC	Texas A&M University					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
	o	tension;deformation;roller;model	04-Jun-17		Shi, Jinxin and Markum, Ronal E and Good, JK	Impact of Large Deformations of Webs Transiting Rollers	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	4			conference	WHRC	whrc					
	o	nip;roller;design;traction	04-Jun-17		Walker, Timothy J	Optimizing Nipped Roller Systems	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	5			conference	WHRC	consult					
	o	curl;measur;model	04-Jun-17		Swanson, Ronald P.	Web Curl and Web Curl Measurement	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	5			conference	WHRC	3M					
	o	nip;roller;deflection	04-Jun-17		Cole, Kevin and Shneider, Brooks	Roller Nip Deflections	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	4			conference	WHRC	Optimation					
	o	nip;roller;deflection	04-Jun-17		Bass, Tom and Nagahori, Atsuchi	Preventing Negative Issues at Nip Roller	14th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 4-7	4			conference	WHRC	Mitsubishi					
	o	drive;length;measure	15-Oct-17		Klassen, Clarence	Precise Roll Length Measurement and Control	AIMCAL R2R Conference	5			conference	WHRC	consult					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
	o	drive;tenson	15-Oct-17		Gilbert, William	Drive Technology 101 - A Basic Overview for the Converting Industry	AIMCAL R2R Conference	5			conference	AIMCAL	Siemens Industry, Inc					
	o	winder	15-Oct-17		Lange, Sebastian	Slitter Rewinder for Special Applications	AIMCAL R2R Conference	2			conference	AIMCAL	Goebel IMS					
	o	winder;oscillation;model	15-Oct-17		Roisum, David R	A Study of Oscillation	AIMCAL R2R Conference	4			conference	AIMCAL	consult					
	o	wind;core;shaft	15-Oct-17		Craig, Sean	Increasing Web Throughput with Core and Roll Centering Shafts	AIMCAL R2R Conference	4			conference	AIMCAL	Maxcess Tidland					
	o	wind;application;design;nip;tension	15-Oct-17		Smith, R Duane	Guidelines for Selecting the Best Winding Process	AIMCAL R2R Conference	4			conference	AIMCAL	Davis-Standard LLC					
	o	rolller;design;rubber;cover	15-Oct-17		Chalane, Dan	Production Value Left on the Surface of the Roller	AIMCAL R2R Conference	3			conference	AIMCAL	American Roller					
	o	roller;design;deflection;diameter;inertia;tension;bearing	15-Oct-17		Lynch, Roland J	Selecting the Best Idler Size	AIMCAL R2R Conference	3			conference	AIMCAL	consult					
	o	roller;rubber;cover	15-Oct-17		Huff, Stephen	What Type of Cover Should I Use to Optimize my Process	AIMCAL R2R Conference	4			conference	AIMCAL	Imperial Rubber					
	o	model	15-Oct-17		Reish, Benjamin	Nonlinear Modeling of Web Spans in a Web Transport System: a Case Study	AIMCAL R2R Conference	3			conference	AIMCAL	WHRC					
	o	sitter;shear	15-Oct-17		Craig, Sean	Improving Edge Quality in Film Applications with Tangent Shear Slitting	AIMCAL R2R Conference	4			conference	AIMCAL	Maxcess Tidland					
		wind;model	01-Sep-18	8	Good, J. Keith and Kandadai, B.K.	Center Winding versus Surface Winding:	Transactions of the 15th Fundamental Research Symposium, Cambridge, England,				conference	WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
		razor; slitting	01-Feb-18	2	Rumson, David	What materials are best slit by razor, and what's the right way to process them	Converting Quarterly, qtr 1, 2018	4			magazine	AIMCAL	self					
		wind;defect;diagnos	01-Feb-18	1	Roisum, David R.	How do we diagnose winding defects	Converting Quarterly, qtr 1, 2018	3			magazine	AIMCAL	self					
		design;pneumatics;hydraulics	01-Dec-17	1	Roisum, David R.	How are pneumatics used to help control web handling	Converting Quarterly, qtr 4, 2017	3			magazine	AIMCAL	self					
		drive;tension;control	01-May-18	1	Roisum, David R.	What is the best motor (type)	Converting Quarterly, qtr 2, 2018	3			magazine	AIMCAL	self					
		curl;;laminate	01-May-18	3	Mount, Eldridge M.	What are the causes & cures of curling in coextruded films and laminations	Converting Quarterly, qtr 2, 2018	2			magazine	AIMCAL	self					
		coating	01-May-18	3	Cohen, Edward D.	What solution properties need to be controlled for eeffective web coating?	Converting Quarterly, qtr 2, 2018	3			magazine	AIMCAL	self					
		shear;slitting;friction	01-May-18	3	Rumson, David	Wexplain how shear slitting and kinetic friction are related: Part 1 of 3	Converting Quarterly, qtr 2, 2018	2			magazine	AIMCAL	self					
		length;measurement;control;drive	01-May-18	6	Klassen, Clarence	Achievinig precise roll-length measurement and control	Converting Quarterly, qtr 2, 2018	4			magazine	AIMCAL	self					
		splice;wind;slit	01-May-18	3	Etchells, Wayne	How to mitigate and avoid costly problems with material splices in the slitting operation	Converting Quarterly, qtr 2, 2018	2			magazine	AIMCAL	Metlon					
		wind;diameter;measure	01-May-18	6	Gilbert, William B.	Roll-diameter requirements in web-converting processes	Converting Quarterly, qtr 2, 2018	3			magazine	AIMCAL	Siemens Industry, Inc					
		tension;control;model	01-Mar-18	10	Pittner, John and Simaan, Marwan	Streamlining the tandem hot-metal strip mill	IEE Transactions, March/April 2018	4			organization	IEE	University of Pittsburg, Univeristy of Florida	HotStripMill TensionPittner	TensionScan	pdf	29-Jun-18	

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
		film;packaging;coating;permeability;drying;winding;sealing	01-Jan-94	180	Miller, Adolph	Converting for Flexible Packaging	Technomic Publishing Company	10			book	Technomic Publishing Company		MillerAdolphConvertFlexiblePkgBook	BookScan	pdf	25-Sep-18	
		paper;finishing;sheeting;winding;lift_truck	10-Jun-05	180	Evans, John CW	Modern Paper Finishing New Equipment and Operations Techniques	Miller Freeman Publications, Inc	10			book	Miller Freeman Publications, Inc		EvansJohnModernPaperFinishingSheeting	BookScan	pdf	25-Sep-18	
		engineering;calculations	01-Jun-79	32	Anon	Calculations and Data	Beloit Corp	4			pamphlet	Beloit Corporation		CalculationsAndDataBeloitCorp	BookScan	pdf	25-Sep-18	
		wind;slit;tension;trim_removal:roll_handling;spreading	24-Apr-17	90	Multi	Slitting and Rewinding Fundamentals Seminsars	AIMCAL	5			course notes	AIMCAL		SlittingRewindingFundamentalsAIMCAL	BookScan	pdf	25-Sep-18	
		soil;foundation;frame;web;paper;machine;vibration;deflection;model	01-Jan-94	48	Multi	Paper Machine Dynamic Foundation Design	TAPPI PRESS	10			book	TAPPI		PaperMachineDynamicFoundationDesignTAPPI1994	BookScan	pdf	25-Sep-18	
		calender;paper;model;wind;defect;time_cycle	01-Jan-94	248	Multi	Calendering and Winding Short Course	TAPPI, York PA	10			course notes	TAPPI		CalenderWindShortCourseTAPPI1994	BookScan	pdf	25-Sep-18	
		paper;wind;machine;DC;Drives;book	01-Jan-92	248	Multi	Paper Machine Drives Short Course	TAPPI, Atlanta, March 1-6, 1992	10			course notes	TAPPI		PaperMachineDrivesShortCourse1992	BookScan	pdf	25-Sep-18	
		calender;wind;conference	06-Oct-85	220	Multi	Finishing and Converting Conferencw	TAPPI, Albany, NY, 10/6-10, 1985	5			conference	TAPPI		FinishingConvertingConferenceTAPPI1985	BookScan	pdf	25-Sep-18	
		paper;wind;machine;DC;Drives;book	01-Jan-99	248	Multi	Paper Machine Drives Short Course	TAPPI, Atlanta, March 1-6, 1992	10			course notes	TAPPI		PaperMachineDrivesShortCourse1999	BookScan	pdf	25-Sep-18	
		paper;moisture;humidity;expansion;curl	01-Jan-05	12	PH Glatfelter	Paper Moisture and Humidity	PH Glatfelter Technical Bulletin 2005-2	5			technical bulletin	PH Glatfelter		PaperMoistureHumidityGlatfelter2005	MoistureScan	pdf	25-Sep-18	
		roller;wind;tension	29-Oct-18		Smith, R Duane	Meeting Today's Thinner/Wider/Faster Challenges in Web Handling Roller Designs	AIMCA R2R Conference, Phoenix, 2018	2			conference	AIMCAL						
		coater;winder;baggy;roll_defec	29-Oct-18		Roisum, David R	What Coaters Should Know about Winders	AIMCAL R2R Conference, Phoenix, 2018	4			conference	AIMCAL	consult					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
		tension;drive	29-Oct-18		Gilbert, William B.	Web Tension Control Fundamentals	AIMCAL R2R Conference, Phoenix, 2018	4			conference	AIMCAL	Seimens					
		tension;drive;turret;wind	29-Oct-18		Klassen, Clarence	Tension Control in a Turret Winder	AIMCAL R2R Conference, Phoenix, 2018	5			conference	AIMCAL	consult					
		wrinkle;wind;defect;telescope	29-Oct-18		Roisum, David R	A Wrinkle is not a Wrinkle is not a Wrinkle	AIMCAL R2R Conference, Phoenix, 2018	4			conference	AIMCAL	consult					
		wind	29-Oct-18		Pasquale, Robert	Selecting the Proper Web Handling Equipment	AIMCAL R2R Conference, Phoenix, 2018	2			conference	AIMCAL	New Era					
		tension;strain;equation	29-Oct-18		Lynch, Roland J	That Wonderful Wewb Transport Formula	AIMCAL R2R Conference, Phoenix, 2018	4			conference	AIMCAL	consult					
		troubleshooting	29-Oct-18		Michal, Neal	Troubleshooting Industrial Problems Using Critical Thinking and Good Science	AIMCAL R2R Conference, Phoenix, 2018	4			conference	AIMCAL	consult					
		drive;tension;statistics	29-Oct-18		Maki, Eric	Making Sense of the Noise	AIMCAL R2R Conference, Phoenix, 2018	4			conference	AIMCAL	MEGTEC Systems					
		drive;tension;statistics	29-Oct-18		Antanies, John	Leveraging Process Historians	AIMCAL R2R Conference, Phoenix, 2018	4			conference	AIMCAL	Envoy Development					
		winder;automation	29-Oct-18		Nietz, David	Innovative Winder Solutions for Increased Tension Control and Scrap Reduction	AIMCAL R2R Conference, Phoenix, 2018	2			conference	AIMCAL	Olbrich GmbH					
	o	roll;web;defect;terminology;troubleshoot;book	01-Jan-13	428	Smith, R. Duane	Ultimate Roll and Web Troubleshooting Guide, 3nd edition	TAPPI PRESS, 2013	20		224 defects has concise information which provides:	Book	TAPPI	Black Clawson					
		material;properties;customers	01-Dec-18	1	Roisum, David R.	Why do some materials misbehave (more than others?	Converting Quarterly, qtr 4, 2018	3			magazine	AIMCAL	self					
		slitting;COF;friciton	01-Dec-18	2	Rumson, David	Explain how shear slitting and kinetic friction are related Part 3 of 3	Converting Quarterly, qtr 4, 2018	3			magazine	AIMCAL	self					
		coating	01-Dec-18	4	Cohen, Edward D.	Advantages and disadvantages of various web-coating methods	Converting Quarterly, qtr 4, 2018	3			magazine	AIMCAL	self					

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		coating;book	01-Jan-11		Cohen, E. and Lightfoot E.J.	Coating Processes.	Kirk-Othner Enceyclopedia of Chemical Technology, 2011	10			book		self					
		coating;book	01-Jan-11		Cohen, E. and Lightfoot E.J.	Coating Processes.	Kirk-Othner Enceyclopedia of Chemical Technology, 2011	10			book		self					
		R2R;book	01-Jan-18		Greener, J. Pearons, G., Cakmak, M.	Roll-to-Roll Manufacturing Process Elements and Recent Advances	John Wiley & Sons, 2018	10			book		self					
		fil;mflexible;packaging;book	01-Jan-16		Wagner, J.R.	Multilayer Flexible Packaging	Elsevier, 2nd Edition, 2016	10			book		self					
		winder;turret;automation;flying;splice	01-Dec-18	5	Piffer, Louis W.	Check here before making that system service call: Part 1	Converting Quarterly, qtr 4, 2018	3			magazine	AIMCAL	Davis-Standard					
		slitter;rewinder	01-Dec-18	5	Rossoni, Massimo	Converting Ffeatures needed to overcome challenges when processing thin, specialty papers	Converting Quarterly, qtr 4, 2018	2			magazine	AIMCAL	Goebel-IMS					
		tension;control;drive;registration	01-Feb-19	3	Gilber, William	Web Tension Control Fundamentals	Converting Solutions, vol 24, no 2, February 2019	3			magazine	Paper, Film, Foil Converter	Seimens					
		tension;control;unwind;brak	01-Feb-19	3	2	Connely, Joeseph	Importance of Tension in an Unwind Stand	2			magazine	Paper, Film, Foil Converter	Parkinson					
		machine;desig;maintenance;quality	01-Mar-19	1	Roisum, David R.	Why do some web machines perform better than others?	Converting Quarterly, qtr 1, 2019	3			magazine	AIMCAL	self					
		slit;lab;pilot;trial	01-Mar-19	2	Rumson, David	What's the potential value of lab slitting trials on slit quality improvements?	Converting Quarterly, qtr 1, 2019	3			magazine	AIMCAL	self					
		turret;wind;tension;control;index;nip;measure	01-Mar-19	6	Klassen, Clarence	Tension control in turret winding	Converting Quarterly, qtr 1, 2019	5			magazine	AIMCAL	self					
		vacuum-roller;traction;nip;s-wrap	01-Mar-19	3	Irons, Darren	Vacuum-roll uses & advantages over nip rollers or S-wraps	Converting Quarterly, qtr 1, 2019	3			magazine	AIMCAL	Maxcess					

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		tension;control;load_cell;dancer;design	01-Jan-19	8	Anon	Web Tension Control Fundamentals	Siemens white paper	4			self	Siemens	self	TensionControlFundamentalsSiemens	TensionScan	pdf	19-Mar-19	
		chill_roller;rubber_roller;maintenance	01-Apr-19	4	Pfiffer, Lou	A Guide on Essential Maintenance for Chill Rolls and Rubber Rolls	Converting Solutions, Vol 24, no 4, April 2019	4			magazine	PFFC	Davis-Standard					
		baggy;defect;wind;profile	01-Jun-19	1	Roisum, David R.	Besides blaming the winder, how is bagginess caused.	Converting Quarterly, qtr 2, 2019	3			magazine	AIMCAL	self					
		coating	01-Jun-19	1	Cohen, Edward D.	What info is needed to select the best option for adding coating capacity? Part 1	Converting Quarterly, qtr 2, 2019	2			magazine	AIMCAL	self					
		slit;design;holder	01-Jun-19	1	Rumson, David	Why would our slitting process change over time, and how does it happen?	Converting Quarterly, qtr 2, 2019	2			magazine	AIMCAL	self					
		blown;film;extrusion;gage;thickness;profile;die	01-Jun-19	5	Mount, Eldridge M.	Film gauge uniformity and measurement: what it means for film producers and customers	Converting Quarterly, qtr 2, 2019	4			magazine	AIMCAL	self					
		blown;film;extrusion;gage;thickness;profile;die	01-Jan-92	200	Butler, T. and Veazey, E	Film Extrusion Manual Process, Materials, Properties	TAPPI PRESS	10			book	TAPPI						
		blown;film;extrusion;gage;thickness;profile;die	01-Jan-14	200	Giles, Wagner & Mount	Extrusion the Definitive Processing Guide and Handbook, 2nd ed, Elselvier, Boston, 2014	Eelselvier, 2016	10			book	Elselvier						
		guide;path;control	01-Jun-19	3	Roisum, David R.	Web guiding: Path control and registration	Converting Quarterly, qtr 2, 2019	3			magazine	AIMCAL	self					
		tension;control;traction;slip;draw	01-Jun-19	6	Jones, Dilwyn P	Predicting web tension when faced with wayward roll speeds and temperatures	Converting Quarterly, qtr 2, 2019	4			magazine	AIMCAL	self					

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		tension;control;traction;slip;draw	01-Mar-15	6	Jones, Dilwyn P	Surface Defects from Microslp: Causes and Reduction	AIMCAL R2R Conference, Munich, March 2015	4			conference	AIMCAL	self					
		tension;control	01-Jun-19	4	Gilbert, William B.	Optimizing web tension control for high productivity: Part 1	Converting Quarterly, qtr 2, 2019	4			magazine	AIMCAL	siemens Industry, Inc					
	o	tension;rheology	01-Jun-19	15	Gomez-Constan, A.R. and Pagilla, P.R and Rajagopal, K.R.	A New Governing Eauation for Web Tension by Employing a Neo-Hookean Hyperelastic Material Models	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	3			conference	WHRC	Texas A&M University					
	o	tension;control;model	01-Jun-19	15	Reish, Ben D. and Reid, Karl N.	A Systematic Method for Determining the Controller Gains in a Multi-Span Web Line	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	3			conference	WHRC	WHRC					
	o	tension;turret;wind	01-Jun-19	15	Klassen, Clarence	Tension Disturbances in a Turrett Winder	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	4			conference	WHRC	self					
	o	tension;control;model	01-Jun-19	15	Reish, Ben D. and Reid, Karl N.	Controller Gain Scheduling in a Multi-Span Web Line	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	3			conference	WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
	o	tension;draw;speed	01-Jun-19	15	Lynch, Ronald J	Exploring the Strain Transport Forumula	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	4			conference	WHRC	self					
	o	tension;roller;slip	01-Jun-19	15	Reish, Ben D. and Reid, Karl N.	Modeling Slip between a Web and a Roller	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	4			conference	WHRC	WHRC					
	o	data;tension;slip;traction	01-Jun-19	15	Cole, Kevin and White, Thomas	Real Time Data Analytics as Applied to Web-to-Roller Traction in Manufacturing	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	4			conference	WHRC	optimation					
	o	lateral;tension;model	01-Jun-19	15	Brown, Jerry L	The Connection between Longitudial and Laterail Web Dynamics	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	4			conference	WHRC	self					
	o	tension;rheology	01-Jun-19	15	Cobos Toress, Edison and Pagilla, Prabhakar R.	Control of the Web Lateral Position and Slope by Employing the Spatially Dependent Transfer Functions	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	3			conference	WHRC	Texas A&M University					
	o	lateral;tension;model	01-Jun-19	15	Brown, Jerry L	A Unified Model for Longitudinal and Lateral Web Dynamics	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	4			conference	WHRC	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
	o	baggy;camber;web;track;model	01-Jun-19	15	Shi, Jinxin and Smith, J. and Markum, Ronald and Good, J.K.	Mechanics of Cambered Web Belts on Aligned Rollers	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	5			conference	WHRC	WHRC					
	o	wrinkle;model	01-Jun-19	15	Jones Dilwyn P.	Unexpected Wrinkling Mechanism in Thin Webs	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	4			conference	WHRC	self					
	o	wind;defect;hardness;statistics	01-Jun-19	15	Thuer, Amy	Roll Variability Analysis for Non-Statisticians	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	4			conference	WHRC	Avery Dennison					
	o	roll;wind;length;diameter;model	01-Jun-19	15	Gajjalla, A and Markum, Ron and Good, J.K.	Predicting the Web Length and Layers in a Wound Roll	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	4			conference	WHRC	WHRC					
	o	film;temperature;measurement	01-Jun-19	15	Nishida, Takeshi and Sunami, Yuta and Hashimoto, Hiromu	Evaluation of Physical Properties of Thin Film and Measurement of Unsteady Thermal Streass	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	3			conference	WHRC	Toka, University					
	o	curl;wound;roll;defect	01-Jun-19	15	Pan, Sheng and Azoug, Aurelie and Good, J.K	Viscoelastic Web Curl due to Storage in Wound Rolls	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	4			conference	WHRC	WHRC					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
	o	wind;nip;densit y;measure	01-Jun-19	15	Bettendorf, Bob	Parametric Study of Nip Load Control on a Pope Reel	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	3			conference	WHRC	Valmet					
	o	wind;roll;qualit y;hardness	01-Jun-19	15	Markum, Ron and Good, J.K	Assessing Wound Roll Quality Using a Measured Stiffness and Models	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	3			conference	WHRC	WHRC					
	o	wind;defect;m easurement	01-Jun-19	15	Michal, Neal	Wound Roll Structures and Practical Applications	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	4			conference	WHRC	self					
	o	wind;creep;len gth	01-Jun-19	15	Mollamahmutg olu, C and Bulut O and Adari, S and Good, James K	Web Length Creep in Wound Rolls	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	3			conference	WHRC	WHRC					
	o	wind;defect;wri nkle	01-Jun-19	15	Roisum, David R.	A Taxonomy of Web and Winding Defects	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	3			conference	WHRC	self					
	o	mold;fill;model	01-Jun-19	15	gomez-Constante, J.P. and Pagilla, P.R. and Rajagopal, K.R.	Effects of Process and Transport Parameters on Mold Filling in Roll to-Roll Nanoimprint Lithodgraphy	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	4			conference	WHRC	Texas A&M University					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
	o	curing;wound;roll	01-Jun-19	15	Bmaskey, Bijendra Bisho and Cho, Gyoujin	Effects of Process and Transport Parameters on Mold Filling in Roll to-Roll Nanoimprint Lithodgraphy	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	3			conference	WHRC	Sunchon National Uiversity					
	o	gravure;smart;label;food;temperature;spoil	01-Jun-19	15	Bmaskey, Bijendra Bishow et all	Roll-to-Roll Gravure Printed Smart Food Package to Replace the "Use=By" date System of Foods	15th Int'l Conf. on Web Handling Proc., Web Handling Research Center, Oklahoma State Univ, June 11-13	5			conference	WHRC	Usunchon National University					
		wind;diameter;measure	01-Aug-19	4	Gilbert, William B.	Roll-diameter requirements in web-converting processes	PFFC, August 2019	3			magazine	PFFC	Siemens Industry, Inc					
		laminate;static	01-Aug-19		Robinson, Dr. Kelly	Laminator Static Control	PFFC, August 2019	4			magazine	PFFC	self					
		tension;control	22-Oct-12		Morozov, Denis	Optimizing Tenssion Control in Center Driven Winders	AIMCAL Web Coating Conference, Myrtle Beach, Oct 22-24, 2012				conference	AIMCAL						
		machine;design;maintenance;wind;vibration	01-Sep-19	1	Roisum, David R.	Why do machines vibrate	Converting Quarterly, qtr 3 2019	4			magazine	AIMCAL	self					
		slit;razor	01-Sep-19	1	Rumson, David	What kinds of slitting support systems are needed to get successful web fracture	Converting Quarterly, qtr 3 2019	3			magazine	AIMCAL	self					
		slit;razor;shear;score	01-Sep-19	5	Rumson, David	A guide to web-slitting knife shapes and applications	Converting Quarterly, qtr 3 2019	4			magazine	AIMCAL	self					
		tension;draw;strain;temperature;heat;expansion;metalizing	01-Sep-19	5	Jones, Dilwyn P	Predicitng web tension when faced with wayward roll speeds and temperatures	Converting Quarterly, qtr 3 2019	4			magazine	AIMCAL	self					
		tension;dancer;accumulator;loadc_cell	01-Sep-19	4	Gilbert, William B.	Optimizing web tension control for high productivity: Part 2	Converting Quarterly, qtr 3 2019	3			magazine	AIMCAL	Seimens					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
		tension;control;dancer;model;steel;rolling;strip	01-Jul-19	8	Pittner, John and Simaan, Marwan	Improving the Availability of Tandem Hot Metal Strip Rolling	IEEE, pp 66-76 July/Aug, 2019	4			journal	IEE	University of Pittsburg, Univeristy of Florida	AvailaMetalStripRoll	TensionScan	pdf	19-Mar-19	
		static;control	06-Oct-19		Robinson, Dr. Kelly	Static Control for Label Production and Applications	AIMCAL R2R Conference, Myrtle Beach, 2019	3			conference	AIMCAL	self		AIMCAL	pdf	06-Oct-19	
		accident;injury;safety;liability	06-Oct-19		Roisum, David R	Case Histories of Accident Around Winders and Other Converting Machines	AIMCAL R2R Conference, Myrtle Beach, 2019	4			conference	AIMCAL	self		AIMCAL	pdf	06-Oct-19	
		accident;injury;safety;liability;drive;code	06-Oct-19		Klassen, Clarence	Safety Drives for Web Handling	AIMCAL R2R Conference, Myrtle Beach, 2019	4			conference	AIMCAL	self		AIMCAL	pdf	06-Oct-19	
		productivity;winder;time_cycle;model;measure	06-Oct-19		Roisum, David R	Productivity of Start-Stop Operations Such as Rewinding	AIMCAL R2R Conference, Myrtle Beach, 2019	4			conference	AIMCAL	self		AIMCAL	pdf	06-Oct-19	
		camber;baggy;web;tension;wrinkle	06-Oct-19		Lynch, Ronald J	Cpmvertomg pf Cambered Webs	AIMCAL R2R Conference, Myrtle Beach, 2019	4			conference	AIMCAL	self		AIMCAL	pdf	06-Oct-19	
		drive;motion;control	06-Oct-19		Gilbert, William B.	Motion Control in Converting Applications	AIMCAL R2R Conference, Myrtle Beach, 2019	4			conference	AIMCAL	self		AIMCAL	pdf	06-Oct-19	
		accident;injury;safety;liability	06-Oct-19		Kerr, David	Understanding Your Facility's Safety Needs	AIMCAL R2R Conference, Myrtle Beach, 2019	4			conference	AIMCAL	MPSA		AIMCAL	pdf	06-Oct-19	
		accident;injury;safety;liability	06-Oct-19		Michal, Neal	Practical Method to Identify and Prioritize Hazards	AIMCAL R2R Conference, Myrtle Beach, 2019	4			conference	AIMCAL	self		AIMCAL	pdf	06-Oct-19	
		Troubleshooting;data;analysis	01-Dec-19	1	Roisum, David R.	What are the challenges when it comes to benefitting from web-processing data?	Converting Quarterly, qtr 4 2019	3			magazine	AIMCAL	self					
		wind;defect;telescope;block;vibration	01-Dec-19	3	Roisum, David R.	What coaters should know about winders	Converting Quarterly, qtr 4 2019	4			magazine	AIMCAL	self					
		slitting	01-Dec-19	1	Rumson, David	How and why is slitting so stressful	Converting Quarterly, qtr 4 2019	2			magazine	AIMCAL	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
		wind;shaft;bladder;sensor;telescope	01-Dec-19	3	Van Deurse, Michael and Willis, Kyle	Ai-shaft bladder inflation issues and benefits of a monitoring system for web processing	Converting Quarterly, qtr 4 2019	4			magazine	AIMCAL	Double E					
		blown;film;oscillation	01-Aug-19	2	Helmuth, William	How to Use 'Mapping' to Troubleshoot Blow Film Problems	Plastics Technology Magazine	4	https://www.ptonline.com/articles/how-to-use-mapping-to-troubleshoot-blown-film-problems?utm_source=ActiveCampaign&utm_medium=email&utm_campaign=PT+Insider+1%2f13%2f2020		magazine	Plastics Technology	Davis-Standard					
		static	01-Feb-20	4	Robinson, Kelly	Static Control for Slitting	Paper, Film & Foil Converter, vol 25, no 2, pp 10-13, February 2020	4	https://cloud.3dissue.com/180292/180783/223356/pffc0220/index.html	Static must be controlled in many manufacturing operations, and new, more complex products require even lower static to ensure effective converting.	magazine	Paper Film Foil Converter	Self					
		Troubleshooting;data;analysis	01-Feb-20	1	Roisum, David R.	How can our web processing change when "we didn't change a thing?"	Converting Quarterly, qtr 1, 2010	4			magazine	AIMCAL	self					
		slitting;razor;crush;shear	01-Feb-20	1	Rumson, David	How can we improve razor-blade cut-edge quality and reduce defects	Converting Quarterly, qtr 1, 2010	3			magazine	AIMCAL	self					
		metallization;register;pattern	01-Feb-20	1	Rimediotti, Fabiano	Benefits of in-register pattern metallization	Converting Quarterly, qtr 1, 2010	3			magazine	AIMCAL	Nordmeccanica					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
		coating;defect	01-Feb-20	1	Lightfoot, EJ (Ted)	Troubleshooting and Defect reduction in coated products	Converting Quarterly, qtr 1, 2010	3			magazine	AIMCAL	self					
		tension;drive;control;startup	01-Feb-20	6	Klassen, Clarence	Multi-tension;zone drive system for web handling: part 1 dry comissioning	Converting Quarterly, qtr 1, 2010	4			magazine	AIMCAL	self					
		slitter;adhesive;blade;shear;score	01-May-20	2	Shea, Bill	Addressing Adhesvie Build-up on Blades	Paper, Film & Foil Converter, vol 25, no 2, pp 10-13, May 2020	3	https://pffc-online.com/slit/16036-addressing-adhesive-build-up-on-blades	on blades will never be eliminated, it can be decreased greatly. As mentioned above, Dienes has a number of options to address adhesive build-up on blades.	magazine	Paper Film Foil Converter	Dienes					
		web;inspect;defect;light	01-May-20	1	Roisum, David R.	What are the best characteristics of web inspection for defects, wrinkles, etc	Converting Quarterly, qtr 2, 2010	4			magazine	AIMCAL	self					
		caliper;gage;thickness;measure;microscope	01-May-20	1	Mount, Eldridge M.	How best are film-layer thickness and layer uniformity measured? Part 1	Converting Quarterly, qtr 2, 2010	3			magazine	AIMCAL	self					
		slit;setup;width;automation;position	01-May-20	1	Rumson, David	What's the overall value in using automatic knife-positioning systmes	Converting Quarterly, qtr 2, 2010	2			magazine	AIMCAL	self					
		winder;vibration;model	01-May-20	6	Michal, Neal	A practical method to analyze and correct winder roll bounce	Converting Quarterly, qtr 2, 2010	4			magazine	AIMCAL	self					
		tension;drive;control;startup	01-May-20	6	Klassen, Clarence	Multi-tension;zone drive system for web handling: part 2 wet commisioning	Converting Quarterly, qtr 2, 2010	4			magazine	AIMCAL	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
		oil;electric;heated;rollers;design;temperature;uniformity	01-May-20	5	Hyllberg, Bruce	Why electrically heated rollers provide more uniform heat	Converting Quarterly, qtr 2, 2010	4			magazine	AIMCAL	American Roller					
		AI;optical;defect;inspection	01-May-20	5	Koenig, Jochen G	How AI simplifies automated, optical surface inspection deployment and operation	Converting Quarterly, qtr 2, 2010	4			magazine	AIMCAL	Shenk Vision					
		winder;vibration;model;measure;two-drum	15-Jun-20	15	Zwart, Jake and Tarnowski, Walkter	Paper Machine Winder Vibtration Testing Using TVDFT	Canadian Machinery Vibration Assoc	4			confrence	Specturm Tec	Spectrum Tec	PaperMachineWinderVibrationZwart	WebsScan/VibrationScan	pdf	13-Jun-20	
		roller;plasma;Teflon;hard;coat;wear;release	01-Jun-20	4	Bradley, William	New Coating Technology Providing Real Solutions in Flexiblwe Packaging	Paper, Film & Foil Converter, June 2020	3			magazine	Paper Film Foil Converter	American Roller					
		static;safety;printing;explosion;static_bar;humidity	01-Jun-20	4	Robinson, Dr. Kelly	Static Control for Flexographic Printing	Paper, Film & Foil Converter, June 2020	4			magazine	Paper Film Foil Converter	self					
		wind;CD;buckle;defect	01-Jul-20	2	Walker, Timothy J	A Remedy for CD Buckles	Paper, Film & Foil Converter, vol 25, no 7, pp 14-16, July 2020	4	https://cloud.3dissue.com/180292/180783/223356/pffc0720/index.html		magazine	Paper Film Foil Converter	Self					
		roller;alignment;tramming_stick	01-Aug-20	2	Walker, Timothy J	Quick Roller Alignment Check	Paper, Film & Foil Converter, vol 25, no 8, pp 10-11, August 2020	4	https://www.pffc-online.com/web-handling/16138-quick-roller-alignment-check		magazine	Paper Film Foil Converter	Self					
		wind;defect	01-Aug-20	1	Roisum, David R.	Are some products just not windable?	Converting Quarterly, qtr 3, 2010	4			magazine	AIMCAL	self					
		slit;setup;width;automation;position	01-Aug-20	1	Rumson, David	How does slitter positioning compare with edge guiding to solve quality issues	Converting Quarterly, qtr 3, 2010	4			magazine	AIMCAL	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
		film;thickness; measure	01-Aug-20	2	Mount, Eldridge M.	How best are film-layer and layer uniformity measured? Part 2	Converting Quarterly, qtr 3, 2010	4			magazine	AIMCAL	self					
		web_handling;traction;tension;tribology;model;book	09-Jul-05		Hashimoto, Hiromu	Theory and Application of Web Handling	Converting Technical Institute	10			book	Converting Technical Institute	self					
		tribology	01-Apr-18		Jones, Dilwyn P	Tribology Applied to Production Problems with Thin Web Materials	Univ of Leeds, Mechanical Engineering Dept	4			report	Univ of Leeds	self					
		wrinkle;heat;temperature;film;model	01-Sep-14		Jones, Dilwyn P	Wrinkles in thin webs on rollers, and their generation by heat	Proceedings of the 12th Bahnlaufseminar	4			conference	Print and Media Technologies	self					
		traction;air_entrainment	01-Jul-09		Jones, Dilwyn P	Air Lubrication Effects in Handling and Winding of Thin Web Materials	EUROMECH Colloquium 497 on Recent Developments And New Directions In Thin-Film Flow	4			conference	Euromech	self					
		wind;model;defect	01-Apr-08		Jones, Dilwyn P	Winding Issues in Reel-To-Reel Manufacture	3rd International Colloquium on Integrated Manufacture by Printing	4			conference	Colloquim on Integrated Manufacture by Printing	self					
		wrinkle;heat;temperature;film;model	01-Apr-08		M.J. McCann, D.P. Jones and J. Affinito	Buckling or Wrinkling of Thin Webs off a Drum	47th Annual Technical Conference Proceedings, Society of Vacuum Coaters	4			conference	Colloquim on Integrated Manufacture by Printing	self					
		traction;air_entrainment	01-Feb-01		Jones, Dilwyn P	Traction in Web Handling	Winding and Web Handling, Institute of Physics, London	4			conference	Institute of Physics	self					
		traction;air_entrainment	01-Jan-92		Jones, Dilwyn P	Air Entrainment as a Mechanism for Low Traction on Rollers and Poor Stacking of Polyester Film Reels; and its Reduction	ASME Special Publication no. AMD-149, "Web Handling 1992" ed. J.K. Good	4			magazine	ASME	self					

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		static;control;label	01-Sep-20		Robinson, Dr. Kelly	Static Control for Labels	Paper, Film & Foil Converter, vol 25, no 9, pp 20-24, September 2020	4			magazine	Paper, Film, Foil Converter	self					
		static;control;corona_treat	01-Oct-20		Robinson, Dr. Kelly	Static Control for Corona Treaters	Paper, Film & Foil Converter, vol 25, no 10, pp 18, October 2020	4			magazine	Paper, Film, Foil Converter	self					
		wind;defect;model	20-Oct-20		Michal, Neal	Practical Methods to Improve Wound Roll Quality	AIMCAL R2R Virtual Converence	4			conference	AIMCAL	self					
		web_handling	20-Oct-20		Smith, R Duane	Today's Thinner/Wider/Faster Challenges in Web Handling	AIMCAL R2R Virtual Converence	2			conference	AIMCAL	Davis-Standard					
		web;roll;id;defect;complaint;traceability	20-Oct-20		Roisum, David R	Traceability of Webs and Rolls	AIMCAL R2R Virtual Converence	5			conference	AIMCAL	self					
		safety;code;design;accident	20-Oct-20		Connelly, Joseph	Does Your Web Handling Equipment Meet Today's National Safety Standards	AIMCAL R2R Virtual Converence	5			conference	AIMCAL	Parkinson					
		winder;vibration	20-Oct-20		Michal, Neal	Practical Method to Analyze and Correct a Winder Roll Bounce	AIMCAL R2R Virtual Converence	4			conference	AIMCAL	self					
		lateral;tension;model;guide;path	20-Oct-20		Brown, Jerry L	How Longitudinal Tension Controls the Lateral Movement of Webs	AIMCAL R2R Virtual Converence	4			conference	AIMCAL	self					
		unwind;flying_splice	20-Oct-20		Pasquale, Robert	Unwind Splicing Systems	AIMCAL R2R Virtual Converence	4			conference	AIMCAL	New Era					
		guide;application	20-Oct-20		Seshadri, Aravind	Advanced Web Guiding Applications and Concepts	AIMCAL R2R Virtual Converence	4			conference	AIMCAL	self					
		web_handling;mistakes	20-Oct-20		Lynch, Ronald J	Fifty Years of Web Handling Mistakes	AIMCAL R2R Virtual Converence	4			conference	AIMCAL	self					
		drive;tension;speed;s-ramp	20-Oct-20		Klassen, Clarence	The S-Ramp for Smooth Speed Changes	AIMCAL R2R Virtual Converence	4			conference	AIMCAL	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
		static;control	20-Oct-20		Robinson, Dr. Kelly	Diagnosing Static Problems	AIMCAL R2R Virtual Converence	4			conference	AIMCAL	self					
		path;guide;model	20-Oct-20		Lynch, Ronald J	Developing a New Web Path Model	AIMCAL R2R Virtual Converence	4			conference	AIMCAL	self					
		web_handling;roller;wrinkle;tension;wind;metal;coil	01-Jan-15		Becker, Bernie	Applying Web Handling Principles to Improve Quality and Productivity on Coil Processing Lines	Coil World	3			magazine	Coil World	self					
		web_handling;roller;wrinkle;tension;wind;metal;coil	01-Sep-01		Edwards, WJ and Boulon, J.	he Mys- tery of Coil Winding Improve Quality and Productivity on Coil Processing Lines	AISE Exposition and Conference, 23-26 September 2001	3			conference	AISE						
		nip;measure;calibrate;friction	01-Nov-20	1	Roisum, David R.	How do we check, calibrate and, if necessary, fix nip-control problems	Converting Quarterly, qtr 4, 2010	4			magazine	AIMCAL	self					
		slitter;shear;blade;design;maintance;tir	01-Nov-20	1	Rumson, David	How does bottom-knife axial runout affect knife side-load force?	Converting Quarterly, qtr 4, 2010	4			magazine	AIMCAL	self					
		winder	01-Nov-20	4	McNamee	Basic parameters to match best slitter to the application	Converting Quarterly, qtr 4, 2010	2			magazine	AIMCAL	Elite Cameron					
		baggy;measure	01-Dec-20	2	anon	Future Concepts of Strip Flatness Measurement	C2 International	3	https://www.coating-converting.com/epaper/c2com/128/epaper/4155/20/index.html#zoom=z		magazine	C2	Achenbach Buschutten					
		film;tin-can;wind;defect	01-Jan-17	10	Smith, R Duane	Applied Web Handling and Winding Case Studies	TAPPP Place Cast and Blow Film Shortcourse	3	https://imisrise.tappi.org/TAPPI/Products/11/EUR/11EURO65.aspx		conference	TAPPI	Davis-Standard					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
		roller;coating;tungsten_carbide;Teflon;traction;release	01-Dec-20	2	Bradley, William	Using Coatings to Improve Wear Resistance and tractions in Non-wovens	Paper, Film & Foil Converter, December 2020	4			magazine	Paper Film Foil Converter	American Roller					
		web_handling;history;data;automation;training	01-Jan-21	2	Roisum, David R.	Converters must make best use of data overdose, automation in tomorrow's higher-tech world	Converting Quarterly, AIMCAL 50th, January 2021	4			magazine	AIMCAL	self					
		web_handling;R2R;laminate	01-Jan-18	200		Web Handling R2R Processes	Reed Publicatons, 2018	10			book	Reed Publications	Reed Publications					
		static;contamination;clean	01-Jan-21	3	Fyffe, Matt	Achieving Fluid Production: Controlling Static and Contamination	Paper, Film & Foil Converter, Jan 2021	2	https://cloud.3dissue.com/180292/180783/223356/pffc0121/index.html		magazine	Paper Film Foil Converter	Meech					
		roller;rubber;covering;static;conductive	01-Jan-21	3	Hyllberg, Bruce	Advantages and Benefits of Conductive Rubber Roller Coverings in Critical Roll Positions	Paper, Film & Foil Converter, Jan 2021	3	https://cloud.3dissue.com/180292/180783/223356/pffc0121/index.html		magazine	Paper Film Foil Converter	American Roller					
		problem_solving, proces_design;troubleshooting	01-Mar-21	1	Roisum, David R.	Can't Control Every Variable? Pick 1	Converting Quarterly, qtr 1, 2021	4			magazine	AIMCAL	self					
		slitter;shear;blade;friction	01-Mar-21	1	Rumson, David	What are the many effects of friction on the web shear-slitting process?	Converting Quarterly, qtr 1, 2021	3			magazine	AIMCAL	self					
		static;measure;troubleshoot	01-May-21	3	Robinson, Dr. Kelly	Diagnose Static Problems with a Handheld Static Meter	Paper, Film & Foil Converter, vol 26, no 5, pp14-16, May 2021	4			magazine	Paper, Film, Foil Converter	self					
		slitter;over-speed	01-May-21	2	Rumson, David	What under or over=speed do we need to avoid shear-slitting defects?	Converting Quarterly, qtr 2, 2021	3			magazine	AIMCAL	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
		roller:supply:specs	01-May-21	4	Cahalane, Daniel J	How to overcome the industry challenge of leaving production value on the surface of a roller	Converting Quarterly, qtr 2, 2021	2			magazine	AIMCAL	American Roller					
		web_handling;dancer;guide;design;mistakes	01-May-21	4	Lynch, Ronald J	Avoiding 50 years of web-handling mistakes - Part I	Converting Quarterly, qtr 2, 2021	3			magazine	AIMCAL	self					
		web_handling;measurement;data	01-May-21	5	Lange, Steven	Leveraging data in Converting Processes	Converting Quarterly, qtr 2, 2021	3			magazine	AIMCAL	self					
		problem_solving,proces_design;troubleshooting	01-May-21	1	Roisum, David R.	How do we best manage the pros and cons of today's remote troubleshooting	Converting Quarterly, qtr 2, 2021	3			magazine	AIMCAL	self					
		rotary;laser;score;cut;die	01-Aug-21	3	Dave Grenwis	Laser Die Cutting vs Rotary Die Cutting	Paper, Film & Foil Converter, Aug 2021	3			magazine	PFFC	Delta ModTech					
		coat;thickness;control	01-Aug-21	3	Pasquale, Robert	Methods for Closed Loop Coating Thickness Control	Paper, Film & Foil Converter, Aug 2021	3			magazine	PFFC	New Era					
		slitter;blade;metallurgy;life	01-Aug-21	2	Rumson, David	How do typical knife metals compare in the shear-slitting process	Converting Quarterly, qtr 3, 2021	4			magazine	AIMCAL	self					
		web_handling;roller;design	01-Aug-21	4	Lynch, Ronald J	Avoiding 50 years of web-handling mistakes - Part II	Converting Quarterly, qtr 3, 2021	3			magazine	AIMCAL	self					
		web_handling;measurement;data	01-Aug-21	5	Lange, Steven	Leveraging data in Converting Processes	Converting Quarterly, qtr 3, 2021	3			magazine	AIMCAL	self					
		problem_solving,proces_design;troubleshooting	01-Aug-21	1	Roisum, David R.	Four reasons why "Fix it, but don't change anything important" is wrong.	Converting Quarterly, qtr 3, 2021	4			magazine	AIMCAL	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
		length;speed; measure	01-Sep-21	4	Dapone, Jerome	Non-Contact Laser Gauges Pave the Way for Higher Accuracy Length and Speed Measurements at Converting Plants	Paper, Film & Foil Converter, Sept 2021	2			magazine	PFFC	NDC					
		guide;applicati on	01-Oct-21	3	Velasco, Pedro P	Web Guides: the evolution of monitoring and the need for knowledge	Paper, Film & Foil Converter, Oct 2021	2			magazine	PFFC	Roll-2-Roll					
		static	01-Oct-21	3	Robinson, Dr. Kelly	Measure Static in Wound Rolls	Paper, Film & Foil Converter, Oct 2021	3			magazine	PFFC	self					
		drive;electrical ;fault;troublesh ooting	19-Oct-21	5	Klassen, Clarence	Now We Can Laugh - Intermittent Electrical Problems	AIMCAL R2R, Orlando, 2021	4			conference	AIMCAL	self					
		web_handling;t roubleshooting	19-Oct-21	5	Roisum, David R	Now We Can Cry - Intermittent (But Regular as Rain) Web Problems	AIMCAL R2R, Orlando, 2021	3			conference	AIMCAL	self					
		tension;control	19-Oct-21	5	Stephan, David	Tension Loop Basics	AIMCAL R2R, Orlando, 2021	1			conference	AIMCAL	Montalvo					
		tension;control	19-Oct-21	5	Pasquale, Robert	The Importance of Proper Tension Control Throughout My Web Processing Line	AIMCAL R2R, Orlando, 2021	2			conference	AIMCAL	New Era					
		baggy;camber ;equation;mod el	19-Oct-21	5	Lynch, Ronald J	Don't Underestimate Camber	AIMCAL R2R, Orlando, 2021	4			conference	AIMCAL	self					
		web_handling; material_prop erties;measur e	19-Oct-21	5	Jones, Dilwyn P	Web Material Properties: Easy Paths Through the Swamp	AIMCAL R2R, Orlando, 2021	4			conference	AIMCAL	self					
		wrinkle;misalig nment;model; measure	19-Oct-21	5	Michal, Neal	Practical Method to Design a Wrinkle Experiment	AIMCAL R2R, Orlando, 2021	4			conference	AIMCAL	self					
		roller;profile;F EM;model;trac king;wrinkling	19-Oct-21	5	Brown, Jerry L	How Roller Shape Controls the Lateral Movement of Webs	AIMCAL R2R, Orlando, 2021	4			conference	AIMCAL	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
		slitting;inline	19-Oct-21	5	Connelly, Joseph	Things to Consider for a Successful Inline Slitting Process	AIMCAL R2R, Orlando, 2021	3			conference	AIMCAL	Parkinson					
		web_handling; model;wrinkle	19-Oct-21	5	Lange, Steven	Converting Data Analytics Informed by Elegant Web Handling Equations	AIMCAL R2R, Orlando, 2021	4			conference	AIMCAL	self					
		web:print;defect;detect	19-Oct-21	5	Roddy, Tim	Web Print Inspection Considerations	AIMCAL R2R, Orlando, 2021	1			conference	AIMCAL	Erhardt + Leimer					
		tension;model; roller;inertia;bearing_drag	19-Oct-21	5	Lynch, Ronald J	Modeling Web Tension with Excel	AIMCAL R2R, Orlando, 2021	3			conference	AIMCAL	self					
		wind;layon;roller;nip;defect	19-Oct-21	5	Kotwis, Joseph	Diagnosing Defects Caused by Layon Rolls in Films	AIMCAL R2R, Orlando, 2021	4			conference	AIMCAL	DuPont					
	o	baggy;web;measure;tension;troubleshoot	25-Sep-20	16	Parent, Frederic and Hamel, Jean and McDonald, David	A Comprehensive Guide to Eliminating Baggy Webs		4				TAPPI	FP Innovations Paprican	Bagginess ComprehensivePapricanTappi	WebsScan/ WebHandling	pdf	16-Nov-21	
	o	tissue;bagginess;trouubleshooting	25-Sep-20	6	Deng, Nina and Parent, Frederic	IMPROVING TISSUE MAKING AND CONVERTING EFFICIENCY		4				internal	FP Innovations Paprican	BaggyTissuePapricanMET	WebsScan/ WebHandling	pdf	16-Nov-21	
		wrinkling	16-Dec-21		Jones, Dilwyn P	A New Approach to Predicting Web Wrinkling (TP2.3)	The International Conference on Micro- and Nano-devices Enabled by R2R Manufacturing 2021 Inaugural Meeting (Dec. 15th-17th, Austin, TX)	4				Texas A&M	self				16-Nov-21	
		center-wind	16-Dec-21		Walker, Timothy J	The Pros and Cons of Center-Surface Driven Winders (TP2.6)	The International Conference on Micro- and Nano-devices Enabled by R2R Manufacturing 2021 Inaugural Meeting (Dec. 15th-17th, Austin, TX)	4				Texas A&M	self				16-Nov-21	

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		registration	16-Dec-21		uha Sumen1, Satu Ylimaula1, Harmen Rooms2, Antti Takaluoma3, Marja Välimäki1, Valentijn von Morgen4, Thomas Kraft1, Marja Vilkman1 (1VTT Technical Research Centre of Finland, 2Coatema Coating Machinery GmbH, 3Offcode Ltd, 4Dupont Teijin Films)	How to Maximize the Registration Accuracy in R2R Processing (TP2.2)	The International Conference on Micro- and Nano-devices Enabled by R2R Manufacturing 2021 Inaugural Meeting (Dec. 15th-17th, Austin, TX)	4				Texas A&M	self				16-Nov-21	
		tension_control	16-Dec-21		Qishen Zhao, Christopher Martin, Nan Hong, Dongmei Chen, Wei Li Qishen Zhao, Christopher Martin, Nan Hong, Dongmei Chen, Wei Li (The University of Texas at Austin)	Tension Control in Roll-to-Roll Mechanical Peeling for 2D Material Transfer and Transfer Printing (TP2.4)	The International Conference on Micro- and Nano-devices Enabled by R2R Manufacturing 2021 Inaugural Meeting (Dec. 15th-17th, Austin, TX)	4				Texas A&M	self				16-Nov-21	
		problem_solving;troubleshooting;traceability	01-Dec-21	1	Roisum, David R.	How do we set up a traceability system and what are its benefits.	Converting Quarterly, qtr 4, 2021	4			magazine	AIMCAL	self					
		slitter;defect;documentation	01-Dec-21	2	Rumson, David	Why should your converting operations have a slitting logbook?	Converting Quarterly, qtr 4, 2021	2			magazine	AIMCAL	self					
		print;flexo	01-Dec-21	5	Ellinger, Carolyn	High-resolution printing for additive manufacturing	Converting Quarterly, qtr 4, 2021	4			magazine	AIMCAL	Estman Kodak					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
		R2R;laser;precision;roller;tension	01-Dec-21	5	Clair, Maurice	Roll-to-roll laser processing of flexible thin-film devices	Converting Quarterly, qtr 4, 2021	4			magazine	AIMCAL	Micromac					
		slitter;defect;documentation;troubleshoot;best_practice	01-Dec-21	5	Rumson, David	A gide to setup procedures for an improved slitting process	Converting Quarterly, qtr 4, 2021	3			magazine	AIMCAL	self					
		bagginess;camber;troubleshooting;measure	01-Dec-21	4	Lynch, Ronald J	Fifty years of web-handling mistakes (Part 3)	Converting Quarterly, qtr 4, 2021	4			magazine	AIMCAL	self					
	o	baggy;web;measure;tension;troubleshoot	01-Jan-22	12	Parent, Frederic and Hamel, Jean and McDonald, David	Web Lateral Instability Caused by Nonuniform Paper Properties	Tappi J, Jan 2022	4	LateralInstabilityNonuniformPaper		magaine	TAPPI	FP Innovations Paprican	BaggingessComprehensivePapricanTappi	WebsScan/WebHandling	pdf	16-Nov-21	
		baggy;web;measure;tension;load_cell;roller	01-Feb-22	2	anon	Up to 40 measuring points on a singe roller	C2 International	4	https://www.coating-converting.com/epaper/c2com/231/epaper/4906/44/index.html		magaine	C2	FMS Force Measuring Systems AG				17-Feb-22	
		static;control	01-Feb-22	3	Robinson, Dr. Kelly	Taking Control of Static.	Paper, Film & Foil Converter, vol 27, no 2, 2022	3			magazine	PFFC	Self					
		slitter;design;instrumentation;measure;future	01-Feb-22	2	Rumson, David	What Problems may be Solved via Electronic Shear Knifeholders	Converting Quarterly, qtr 1, 2022	2			magazine	AIMCAL	self					
		roller;wrap_angle;design;traction;load_cell;dancer;heat_transfer	01-Feb-22	1	Roisum, David R.	What is the best roller wrap angle?	Converting Quarterly, qtr 1, 2022	4			magazine	AIMCAL	self					
		roller;rubber;cover;clean	01-Mar-22	1	Bradley, William	Roller Solutions Uncovered	Paper, Film & Foil Converter, Mar 2022	3			magazine	PFFC	American Roller					
	o	baggy;web;measure;tension;troubleshoot;path	01-Jan-22	12	Parent, Frederic and Hamel, Jean and McDonald, David	Web Lateral Instability Caused by Nonuniform Paper Properties	Tappi J, Jan 2022	4	BaggyMoisturePathPaprican		magaine	TAPPI	FP Innovations Paprican	BaggyMoisturePathPapricanTappi	WebsScan/WebHandling	pdf	16-Nov-21	
		material;properties;lab;tensile;test	01-Apr-22	3	Michal, Neal	Material Property, Testing and Applications: Part 1	Paper, Film & Foil Converter, vol 27, no 4, 2022	3			magazine	PFFC	Self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
		material;properties;lab;tensile;test	01-Jul-22	4	Michal, Neal	Material Property, Testing and Applications: Part 2	Paper, Film & Foil Converter, vol 27, no 7, 2022	3			magazine	PFFC	Self					
		wet;web_break;runnability;paper;property;tension;speed	01-May-22	4	Parent, Frederic and Ricard, Daniel and McDonald, J David and Kerekes, Richard J.	Web instability in the open draw and the impact on paper machine efficiecy	TAPPI J, May 2022	4			magazine	TAPPI	FP Innovations Paprican					
		static;measure;troubleshoot;install;design	01-Sep-22	2	Robinson, Dr. Kelly	Static Dissipater Installation Affects Performance	Paper, Film & Foil Converter, Aug 2022	3			magazine	PFFC	self					
		customer;troubleshooting	01-Sep-22	1	Roisum, David R.	Are You My Customer	Converting Quarterly, qtr 3, 2022	3			magazine	AIMCAL	self					
		roller;grooving;taping	01-Jun-22	1	Roisum, David R.	How Might 100 MPH Duct-Taping of Rollers be Useful or a Nuiscance	Converting Quarterly, qtr 2, 2022	3			magazine	AIMCAL	self					
		slitter;design;iscore;shear;adhesive	01-Sep-22	2	Rumson, David	What Problems may be Solved via Electronic Shear Knifeholders	Converting Quarterly, qtr 3, 2022	2			magazine	AIMCAL	self					
		moisture;water;paper;measure;infrared	01-Sep-22	3	Bogart, John	Three Ways the Pulp and Paper Industry can Benefit from NIR Technology.	Paper, Film & Foil Converter, Sept 2022	2			magazine	PFFC	Kett US					
		wind;stress;model	01-Sep-22	3	Michal, Neal	Wound Roll Mechanics: Part 1	Paper, Film & Foil Converter, Sept 2022	3			magazine	PFFC	self					
		air_entrain;traction;wind;tightness;speed_limit	01-Dec-22	1	Roisum, David R.	What's behind the real problems caused by air entrainment?	Converting Quarterly, qtr 4, 2022	3			magazine	AIMCAL	self					
		slitter;dust;contamination;measure	01-Dec-22	2	Rumson, David	How do we best quantify and remove slitting dust	Converting Quarterly, qtr 4, 2022	4			magazine	AIMCAL	self					
		web:handling;corona_treat;rollers;wrinkles;maintenance;wrinkles	01-Dec-22	5	Gilbertson, Tom and Plantier, Mark	Web handling best practices for corona treating on R2R-converting lines: Why the web path matters	Converting Quarterly, qtr 4, 2022	4			magazine	AIMCAL	Enercon Industries					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
		trim;slitter;removal;chute;cut;quality	01-Dec-22	6	Rumson, David	The Basics of Web Trim Slitting	Converting Quarterly, qtr 4, 2022	4			magazine	AIMCAL	self					
		Web-Handling	27-Sep-22		Lange, Steven	Converting Process Sustainability via Optimized Web Handling	AIMCAL R2R Conference, Orlando, 2022	3			conference	AIMCAL	self					
		web_handling;rollers;tension;drives;maintenancy;buy	27-Sep-22		Kotwis, Joseph and Stephen, David	Material Meets Machine - Successful Equipment Startups	AIMCAL R2R Conference, Orlando, 2022	3			conference	AIMCAL	DuPont and PCT Ebeam					
		coating;air_entrain	27-Sep-22		Lightfoot, EJ (Ted)	Coating Process Troubleshooting: Air Entrainment	AIMCAL R2R Conference, Orlando, 2022	3			conference	AIMCAL	self					
		slitting	27-Sep-22		Koester, Thomas	Advanced Slittting Technology for Metalized Capacitor Films	AIMCAL R2R Conference, Orlando, 2022	3			conference	AIMCAL	Wickeltechnik BmbH					
		wrinkle;troubleshooting	27-Sep-22	1	Roisum, David R.	How to Approach a Wrinkle	AIMCAL R2R Conference, Orlando, 2022	3			conference	AIMCAL	self					
		steering;guide;model	27-Sep-22	1	Jones, Dilwyn P	A New Look at the Lateral Dynamics of Wide Webs (L/2<2.0)	AIMCAL R2R Conference, Orlando, 2022	3			conference	AIMCAL	self					
		nonwovens;converting	27-Sep-22	1	Michal, Neal	Nonwovens Converting Performance	AIMCAL R2R Conference, Orlando, 2022	3			conference	AIMCAL	self					
		tension;control	27-Sep-22	1	Kim, Jaeyoung	Implementation of a High Precision Tension Control Design for a Roll-to-Roll System	AIMCAL R2R Conference, Orlando, 2022	3			conference	AIMCAL	Korea Instutitue of Machinery and Materials					
		web_handling	27-Sep-22	1	Smith, R Duane	Meeting Today's Challenges in Web Handling	AIMCAL R2R Conference, Orlando, 2022	3			conference	AIMCAL	Davis-Standard LLC					
		idler;roller;design	27-Sep-22		Kotwis, Joseph	Specifying an Idler Roller	AIMCAL R2R Conference, Orlando, 2022	3			conference	AIMCAL	DuPont					
		material;properties;wind;roll_structure;stress	01-Dec-22	3	Michal, Neal	Winding: Part 2	Paper, Film & Foil Converter, vol 27, no 12, 2022	4			magazine	PFFC	Self					
		sustainability;film	01-Dec-22	3	Greely, Mike	Sustainability withing bags, pouches and emerging films	Paper, Film & Foil Converter, vol 27, no 12, 2022	2			magazine	PFFC	Totani America					

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		static	01-Dec-22	2	Robinson, Dr. Kelly	Maintaining Static Control	Paper, Film & Foil Converter, vol 27, no 12, 2022	4			magazine	PFFC	self					
		slitting;adhesive;design	01-Dec-22	2	Sol, Racardo	Slitting Section: Addressing Adhesive Build-up on Blades	Paper Age, Dec 2022	3			magazine	Paper Age	Dienes					
		threading;safety	01-Dec-22	2	Palazzesi, Stefano	Auto Web Starter Makes Web Thread-up Safe and Efficient	Paper Age, Dec 2022	3			magazine	Paper Age	Korber					
		wind;stress;tightness;tnt;curve	01-Jan-23	3	Michal, Neal	Winding: Part 3	Paper, Film & Foil Converter, vol 28, no 1, 2023	4			magazine	PFFC	Self					
		slit;trim;removal;vacume	01-Jan-23	3	DeHart, Robert	Making a Case for Single Machine Removal	Paper, Film & Foil Converter, vol 28, no 1, 2023	3			magazine	PFFC	Air-Trim					
		static;bag;pouch;open	01-Feb-23	2	Robinson, Dr. Kelly	Prevent Opening Failures of Bags and Pouches with Good Static Control	Paper, Film & Foil Converter, vol 28, no 2, 2023	4			magazine	PFFC	Self					
		operator;story;vibration;accident;design;troubleshooting	01-Feb-23	1	Roisum, David R.	An Ode to Operators	Converting Quarterly, qtr 1, 2023	5			magazine	AIMCAL	self					
		slit;dust;design;measure;clean	01-Feb-23	2	Rumson, David	How do we deal with slitting dust, especially in cleanroom slitting	Converting Quarterly, qtr 1, 2023	4			magazine	AIMCAL	self					
		wind;saffety;quality;control	01-Mar-23	3	Michal, Neal	Winding: Part 4	Paper, Film & Foil Converter, vol 28, no 3, 2023	3			magazine	PFFC	Self					
		cof;dyne;plastic	01-Mar-23	4	Eisby, Jan	Dyne Decay	Paper, Film & Foil Converter, vol 28, no 3, 2023	4			magazine	PFFC	Vetaphone					
		load_cell;tension;profile;roller	01-Mar-23	2	anon	Top Packaging Producer is one of the First to Deploy Pioneering Tension Measurement Roller	Paper, Film & Foil Converter, vol 28, no 3, 2023	4	FMS-segForce		magazine	PFFC	PFFC					
		threading;safety	01-Mar-23	3	Munoz, Claudio	Safer, More Efficient Web Thread-up	Paper360	3			magazine	TAPPI	Korber					

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		wind;defect	01-Apr-23	3	Michal, Neal	Winding: Part 5	Paper, Film & Foil Converter, vol 28, no 4, 2023	3			magazine	PFFC	Self					
		rotary die	01-May-23	2	Target, Dick	Managing a Successful Rotary Die Cut Operation	Paper360	3			magazine	TAPPI	self					
		speed limits vibration air entrin	01-Jun-23	1	Roisum, David R.	What Factors are Behind the Limits to Speed for ANY Web Machine	Converting Quarterly, qtr 2, 2023	3			magazine	AIMCAL	self					
		defect quality	01-Jun-23	1	Lightfoot, EJ (Ted)	How do we balance trust with supicion on base substrates	Converting Quarterly, qtr 2, 2023	3			magazine	AIMCAL	self					
		slitting origin history	01-Jun-23	1	Rumson, David	When did web slitting begin and how did it initially evolve	Converting Quarterly, qtr 2, 2023	3			magazine	AIMCAL	self					
		web handling model	01-Jun-23	6	Vahid, Orang and Lange, Steve	The role of new system-level simulation in solving difficult web-handling design problems	Converting Quarterly, qtr 2, 2023	5			magazine	AIMCAL	Maplesoft					
		accumulators;tension;alignment;wrinkle	01-Jun-23	6	Michal Neal	Benefits and challenges of designing and using accumulators in various web-handling operations	Converting Quarterly, qtr 2, 2023	5			magazine	AIMCAL	self					
		guide;application;design	01-Jun-23	4	Roisum, David R.	A basic guide to web guiding	Converting Quarterly, qtr 2, 2023	4			magazine	AIMCAL	self					
		coating thickness measurement	01-Jun-23	3	Komaragiri, Vivek	Coating process digitalization opportunities created by absolute, in-process, coating thickness measurement data	Converting Quarterly, qtr 2, 2023	4			magazine	AIMCAL	Sensory Analytics					
		thickness measurement	01-Jun-23	3	Reber, Eric	Alternatives to nuclear sensors for on-line web-gauging of weight/thickness measurement	Converting Quarterly, qtr 2, 2023	4			magazine	AIMCAL	Mahlo America					

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		defect marking	01-Jun-23	3	Novelli, Alfonse	Closing the web-inspection loop with automatic defect marking	Converting Quarterly, qtr 2, 2023	3			magazine	AIMCAL	Novation Inc.					
		defect marking	01-Jun-23	3	Novelli, Alfonse	How to keep defects in house	Paper, Film & Foil Converter, vol 28, no 6, 2023	3			magazine	PFFC	Novation Inc.					
		corona treat	01-Jun-23	3	Forster, Dr Frank	Corona Treatment for Extrusion Coating and Laminating Production Lines	Paper, Film & Foil Converter, vol 28, no 6, 2023	3			magazine	PFFC	SOFTAL Corona & Plasma Gmbh					
		static;measure;monitor	01-Jun-23	3	Robinson, Dr. Kelly	Automating Static Control with Online Monitors	Paper, Film & Foil Converter, vol 28, no 6, 2023	3			magazine	PFFC	self					
		unwind;rewind;guide	01-Jul-23	3	Seshadri, Aravind	Unwind and Rewind Web Guides	Paper, Film & Foil Converter, vol 28, no 7, 2023	3			magazine	PFFC	Roll-2-Roll					
		unwind;rewind;guide;design	01-Sep-23	3	Seshadri, Aravind	Unwind and Rewind Web Guides	Paper, Film & Foil Converter, vol 28, no 8, 2023	4			magazine	PFFC	Roll-2-Roll					
		static	01-Sep-23	4	Blanco, Manuel	Passive, Active and Intelligent Static Eliminators	Paper, Film & Foil Converter, vol 28, no 8, 2023	3			magazine	PFFC	Simco-Ion					
		profile;troubleshooting	01-Sep-23	1	Roisum, David R.	Using "Profile" as the Chief Suspect in Solving Web-Processing Issues	Converting Quarterly, qtr 3, 2023	3			magazine	AIMCAL	self					
		Slitting;razor;crush;shear	01-Sep-23	2	Rumson, David	What are the converting industry's Less Common Slitting Methods	Converting Quarterly, qtr 3, 2023	3			magazine	AIMCAL	self					
		drying;PSA;adhesive	01-Sep-23	5	Lightfoot, EJ (Ted)	The physics behind drying of pressure-sensitive adhesives	Converting Quarterly, qtr 3, 2023	5			magazine	AIMCAL	self					
		unwind;zero-speed;splice	01-Sep-23	4	Michal, Neal	Using zero-speed splice uwninds in web-handling	Converting Quarterly, qtr 3, 2023	4			magazine	AIMCAL	self					

ID	Have	Keywords	Pub Date	Pages	Author	Title	Reference	Quality	Link	Abstract	Document Type	Copyright Holder	Affiliation	Filename	Folder	File Format	Date Scanned	Comments
6044	o	tension;model		129	Strike, Gary P.	The Ke Models: Theoretical Dynamic Subsystems of Longitudinal Web Strain			https://shareok.org/bitstream/handle/11244/321978/oksd_icwh_2011_strike.pdf?sequence=1&isAll		MS thesis	WHRC	Webtech Omega LLC					
		tension;model			Hou, Y., Gao, F. Jiang, and Boulter, B.T	Active Disturbance Rejection Control for Web Tension Regulation	2001 IEEE Conference on Decision and Control											
		mfg;simulation;tension	02-Oct-23		Kim, Jaeyoung	Digital Twin Technology for Roll-to-Roll Continuous Manufacturing System	ARRC R2R Conf, MKE, 2023	2			conference	AIMCAL	Korea Institute of Machinery and Materials					
		tension;drive;dancer;roller;simulation	02-Oct-23		Rossi, Kayla	Introduction to Simulation Based Engineering in Web Handling Systems	ARRC R2R Conf, MKE, 2023	4			conference	AIMCAL	Maplesoft					
		mfg;simulation	02-Oct-23		Gotshall, Joe	Revolutionizing Roll to Roll Production with Digital Suppply Chain Twins and Optimization	ARRC R2R Conf, MKE, 2023	3			conference	AIMCAL	Greycon					
		wrinkling	02-Oct-23		Lange, Steven	Web Properties and Wrinkling Basics	ARRC R2R Conf, MKE, 2023	4			conference	AIMCAL	self					
		tension;rollers;nips	02-Oct-23		Michal, Neal	Tensioning, Rollers, and Nips	ARRC R2R Conf, MKE, 2023	4			conference	AIMCAL	self					
		guide;application;design	02-Oct-23		Seshadri, Aravind	Fundamentals of Web Guiding	ARRC R2R Conf, MKE, 2023	4			conference	AIMCAL	Roll-2-Roll Technologies					
		test;design	02-Oct-23		Palmer, Andy	Web Handling Best Practices - Introduction to a New Resource	ARRC R2R Conf, MKE, 2023	4			conference	AIMCAL	Procter & Gamble					
		web-handling;troubleshooting	02-Oct-23		Roisum, David R	Top 10 Secrets of Web Handling	ARRC R2R Conf, MKE, 2023	4			conference	AIMCAL	self					
		converting	02-Oct-23		Michal, Neal	Converting Performance	ARRC R2R Conf, MKE, 2023	4			conference	AIMCAL	self					

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		heat	02-Oct-23		Kotwis, Joe	Ring of Fire: Problem Solving for High Temperature Film Processing	ARRC R2R Conf, MKE, 2023	4			conference	AIMCAL	Webineering					
		spread;wrinkle	02-Oct-23		Lange, Steven	Web Spreading Devices: How They Work and Why They Fail	ARRC R2R Conf, MKE, 2023	4			conference	AIMCAL	self					
		winding;machine	02-Oct-23		Johnson, Scott	Building a Perfect Roll	ARRC R2R Conf, MKE, 2023	2			conference	AIMCAL	IMS Technologies, Inc.					
		drive;tension;simulation	02-Oct-23		Finkbeiner, Tom	Boost Machine Productivity Through Executable Digital Twinns	ARRC R2R Conf, MKE, 2023	4			conference	AIMCAL	Siemens Industry, Inc					
		drive;upgrade	02-Oct-23		Stephan, David	A DC to AC Upgrade Guide	ARRC R2R Conf, MKE, 2023	4			conference	AIMCAL	PCT Ebeam and Integration					
		guide;splice;quality;detect	02-Oct-23		Seshadri, Aravind	Machine Learning Based Splice Detection Utilizing Web Edge Sensor Data	ARRC R2R Conf, MKE, 2023	4			conference	AIMCAL	Roll-2-Roll Technologies					
		roller;plasma;Teflon;hard;coat;wear;release	02-Oct-23			Applications and Benefits of Dual Layer Plasma Coated Rollers and Parts in Manufacturing	ARRC R2R Conf, MKE, 2023	4			conference	AIMCAL	American Roller					
		web:clean:static;battery	01-Oct-23	4	Fyffe, Matt	Avoiding Thermal Runaway in EV Batteries	Paper, Film & Foil Converter, vol 28, no 10, 2023	3			magazine	PFFC	Meech					
		static;coatin	01-Oct-23	4	Robinson, Dr. Kelly	Auppewaa ArRIX Apeka ro Peorwxr Awnairicw XoRINFA	Paper, Film & Foil Converter, vol 28, no 10, 2023	4			magazine	PFFC	self					