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Mechanical Science and Engineering Research Resources: Find Articles & Papers



A guide to finding articles and reference materials for students in the field of Mechanical Science and Engineering.

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Standards & Technical Reports

Patents & Government Documents

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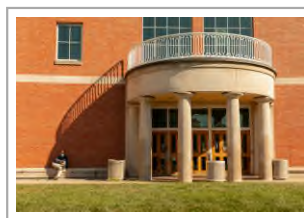
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Engineering Easy Search

University Library Search Engines

- [Grainger Engineering Library Homepage](#)
With specialized searches for Engineering and the Physical Sciences.
- [Easy Search](#)
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Engineering Article Databases

- [Engineering Village](#)

Search for articles, conference paper, and report information in all areas of engineering. Full-text is often available through direct download.

- [Scopus](#)

Search periodicals, conference proceedings, technical reports, trade literature, patents, books, and press releases in all engineering fields. Some full-text available as direct downloads.

- [Web of Science \(Core Collection\)](#)

Search for articles in science and engineering. Also provides Science Citation Index that tracks citations in science and technical journals published since 1981. Journal Citation Reports are also available through ISI.

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Mechanical Science & Engineering Article Databases

- [ASME Digital Library](#)

Provides abstracts and full-text access to regularly published journals, conference proceedings, and e-books from The American Society of Mechanical Engineers.

- [ASTM Digital Library](#)

The Library covers a broad range of engineering disciplines, including aerospace, biomedical, chemical, civil, environmental, geological, health and safety, industrial, materials science, mechanical, nuclear, petroleum, soil science, and solar engineering.

- [CINDAS Aerospace Structural Metals Database \(ASMD\)](#)

The Aerospace Structural Metals Database (ASMD) contains approximately 80,000 data curves on over 200 alloys used in the aerospace and other industries.

- [ENGnetBASE](#)

A collection of best-selling engineering handbooks and reference titles. Includes access to sub-collections:

CivilENGINEERINGnetBASE,

ElectricalENGINEERINGnetBASE,

GeneralENGINEERINGnetBASE,

IndustrialENGINEERINGnetBASE,

MechanicalENGINEERINGnetBASE,

MiningENGINEERINGnetBASE.

- [SAE Digital Library](#)

The SAE Digital Library is a repository of technical content for all forms of vehicle

technical content for all forms of vehicle

technology. All types of land, sea, air and space vehicles are covered by the literature.

The database contains full text technical

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papers from 1906 to the present. Standards,

specifications and international papers are

represented by bibliographic information

Subjects: Engineering **Tags:** biomechanics, controls, dynamics, engineering,

fluid mechanics, kinematics, manufacturing, materials, mechanical engineering,

mechanical science and engineering, mechanics, nanomechanics, nanotechnology, solid mechanics,

thermal sciences, thermodynamics.

• CINDAS Thermophysical Properties of Matter

Database (TPMD).

The Thermophysical Properties of Matter

Database (TPMD) contains thermophysical

properties of over 5,000 materials with

approximately 50,000 data curves. This is the

searchable, electronic version of the

Thermophysical Properties of Matter, the

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TPRC data series. It is available in a Web-

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based format. The database is continually

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Top U of I Mechanical Science & Engineering Journals

Top journals written in and cited by University of Illinois at Urbana-Champaign faculty.

- [Journal of High Energy Physics](#)
- [European Physical Journal C: Particles and Fields](#)
- [International Journal of Heat and Mass Transfer](#)
- [Physical Review D: Particles, Fields, Gravitation, and Cosmology](#)
- [Physics Letters Section B Nuclear Elementary Particle and High Energy Physics](#)

Top Mechanical Science & Engineering Journals

Top journals as determined by [Thomson Reuters](#) Journal Impact Factor 2021 Rankings.

- [Progress in Energy and Combustion Science](#)
2021 Impact Factor: 35.339
- [Advances in Applied Mechanics](#)
2021 Impact Factor: 17.400
- [International Journal of Machine Tools & Manufacture](#)
2021 Impact Factor: 10.331
- [Mechanical Systems and Signal Processing](#)
2021 Impact Factor: 8.934
- [International Journal of Plasticity](#)
2021 Impact Factor: 8.500
- [Engineering with Computers](#)
2021 Impact Factor: 8.083
- [International Journal of Mechanical Sciences](#)
2021 Impact Factor: 6.772
- [Proceedings of the Combustion Institute](#)
2021 Impact Factor: 6.719
- [Engineering Applications of Computational Fluid Mechanics](#)
2021 Impact Factor: 6.519
- [Applied Thermal Engineering](#)
2021 Impact Factor: 6.465

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Prominent Science Journals

Top journals as determined by [Thomson Reuters](#) Journal Impact Factor 2021 Rankings.

- [Nature](#)
2021 Impact Factor: 69.504
- [Science](#)
2021 Impact Factor: 63.832
- [Proceedings of the National Academy of Sciences](#)
2021 Impact Factor: 10.700

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Subscription Standards & Technical Reports

Standards are rules, techniques, and conditions for engineering design, industrial practices, units of measurement, terminology, etc. Standards can be mandatory or voluntary. Think of standards as rules for uniformity, size, quality, performance, shape, definition and testing methodology of manufactured products.

University of Illinois at Urbana-Champaign students can access standards purchased by the library through a few online outlets. Print standards can be found on the west wing on the second floor of the Grainger Engineering Library. See Grainger Engineering Library's page on [Standards and Technical Reports](#) for more information, or contact a reference librarian for assistance.

- **ANSI Standards**
Print only; no online access. Located at the Grainger Engineering Library. Please ask the Reference Desk if you need assistance locating an ANSI standard.
- **[ASTM Standards](#)**
Provides online access to ASTM standards purchased by the University Library.
- **[IEEE Standards](#)**
Standards from IEEE and their affiliates.
- **[SAE Standards](#)**
SAE standards are only available in print and microfiche; no online access. They are located at the Grainger Engineering Library. Please ask the Reference Desk if you need help locating an SAE standard. SAE often

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reissues their standards as Technical Papers, available through this link. If the standard you are looking for is not available as a Technical Paper, a hard copy may be at the Grainger Engineering Library.

- [SAE Technical Papers](#)

SAE Technical Papers are available online to University of Illinois at Urbana-Champaign affiliates. Some of the technical papers contain reissues of SAE standards.

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Standards & Technical Report Resources

General resources for researching and finding standards and technical reports.

- [ILI Standards Infobase](#)

The University Library does not have a subscription through ILI Standards InfoBase, but it is a good database to search for more information. Under certain circumstances, Grainger Engineering Library can purchase standards that we do not have access to. Please contact the Grainger Engineering Library by using the "Email Me" link to the right.

- [NIST - U.S. National Institute of Standards & Technology](#)

See also [Standard Reference Data Group](#) and [Standard Reference Materials Group](#).

- [Occupational Safety & Health Administration \(OSHA\)](#)

OSHA Publications - most available as HTML, or PDFs.

- [Technical Report Archive & Image Library \(TRAIL\)](#)

Search U.S. government technical reports issued primarily prior to 1975 and digitized by the TRAIL Working Groups.

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Online Government Document Resources

- [Defense Technical Information Center \(DTIC\)](#)
More than 50 percent of the research records in DTIC's collection are available through the R&E Gateway — an access-controlled knowledge management repository available to authorized DoD personnel, defense contractors, federal government personnel, government contractors, and select academic institutions. The R&E Gateway requires Common Access Card (CAC) login or registration. Access to unclassified, unlimited information, including many full-text, downloadable documents are available to the general public through this website.
- [DoD Scientific and Technical Reports Collection \(STINET\)](#)
The Defense Technical Information Center provides selected full-text and bibliographic records of unclassified, unlimited technical reports. The site also includes reports that have been received and processed since 1985.
- [Grainger Engineering Library's List of Online Government Publications](#)
A comprehensive list of U.S. government documents available online.
- [NASA Technical Reports Server \(NTRS\)](#)
The NTRS is a valuable resource for researchers, students, educators, and the public to access NASA's current and historical technical literature and engineering results.

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- [Technical Report Archive & Image Library](#)
([TRAIL](#)).
Search U.S. government technical reports issued primarily prior to 1975 and digitized by the TRAIL Working Groups.

Print Government Document Resources

University Library print and microfiche collections of Government Documents.

- [Government Information Services Library](#).
The Government Information Services reference collection can be found on the second floor of the Main Library Building in the southeast corner of the Reading Room (200 Main Library).
- [Government Publications, Indexes, and Abstracts at Grainger Engineering Library](#).
Includes selected indexes and abstracts of government publications in science and technology as well as descriptions of the holdings of important collections which are located at the Grainger Engineering Library.

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Patent Databases

- [Engineering Village](#)
Includes searches of United States and/or European patents.
- [European Patent Office Espacenet Patent Search](#)
Free access to more than 70 million patents worldwide including full-text of published European patents.
- [Google Patent Search](#)
Searches more than seven million US patents.
- [USPTO - U.S. Patent and Trademark Office](#)
Access to USPTO Patent Databases including the Patent and Full-Text and Image Databases and the Patent Application Information Retrieval System.
- [World Intellectual Property Organization PATENTSCOPE](#)
PATENTSCOPE searches ten million patent documents including more than two million published international patent applications (PCT).

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Mechanical Science & Engineering Online Handbooks & Reference

These e-Books are available to University of Illinois at Urbana-Champaign patrons. You will be asked to log-in if they are accessed off-campus.

- [ASM Handbooks Online](#)
Comprehensive source for information on ferrous and non-ferrous metals and materials technology; contains data on metals properties and performance.
- [CRC Handbook of Mechanical Engineering](#)
Covers background and current information on important mechanical engineering topics, for practicing engineers in industry.
- [CRC Handbook of Thermal Engineering](#)
Emphasizes applications in thermal design and computer solutions of thermal engineering problems.
- [Damage Tolerant Design Handbook \(DTDH\)](#)
A collection of fracture and crack growth data for high strength alloys. Produced by CINDAS.
- [Encyclopedia of Computational Mechanics](#)
Offers theoretical and practical information about computational methods in applied mechanics.
- [Encyclopedia of Materials: Science and Technology](#)
Covers field of materials science, including theory, practice, and socioeconomic and humanistic aspects.
- [Encyclopedia of Smart Materials](#)

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Includes information about materials and structures that can impact information about their environment to an observer or monitoring device.

- Fuel Cell Technology Handbook

Technical and commercial aspects of high and low temperature fuel cells, fuel cell systems, fuel cell catalysis, and fuel generation.

- Handbook of Lubrication and Tribology: Application and Maintenance

Provides facts, figures, and equations as well as the latest technology related to application and maintenance procedures.

- Handbook of Mechanical Engineering Calculations

Compendium of calculation methods.

- Handbook of Micro/Nano Tribology

Basic information, as well as design, construction, and applications to magnetic storage devices and MEMS.

- Harris' Shock and Vibration Handbook

Includes theory, measurement, testing, design, and control methodologies, and practical applications.

- Marks' Standard Handbook for Mechanical Engineers

Intended to help solve analytical, design, and application-related mechanical engineering problems.

- Mechanical Design Engineering Handbook

Covers areas of bearings, shafts, gears, seals, belts and chains, clutches and brakes, springs, fasteners, pneumatics and

springs, fasteners, pneumatics and

hydraulics, amongst other core mechanical elements, and principles, data, and calculations.

- Mechanical Systems Design Handbook

Focuses specifically on needs of designers and engineers in industrial settings, and provides a practical overview of basic issues associated with design and control of mechanical systems.

- MEMS Materials and Processes Handbook

Provides a comprehensive catalog of various MEMS processes, each with a brief introduction to the technology, as well as examples of common uses.

- Standard Handbook of Machine Design

Design handbook for mechanical engineers, product designers, project engineers, design engineers, and manufacturing engineers.

- Structural Alloys Handbook (SAH)

Information on selecting metals and alloys.
Produced by CINDAS.

Engineering E-Books by Publisher

- [Access Engineering](#)

Engineering reference tool for professionals, academics, and students that provides seamless access to the world's best-known, most-used collection of authoritative, regularly updated engineering reference information.

- [CHEMnetBASE](#)

Electronic versions of several CRC reference sources, including the Handbook of Chemistry and Physics.

- [ENGnetBASE](#)

Includes electronic versions of CRC Press engineering handbooks.

- [Grainger Engineering Library's Handbook Page](#)

A list of online handbooks available by subject area.

- [Springer Materials The Landolt-Bornstein Database](#)

A systematic and comprehensive evaluation of selected and critically evaluated data in all areas of physical sciences & engineering.

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Many electronic resources provided by the University of Illinois at Urbana-Champaign are subscription services available only to university patrons. If you are using an off-campus computer, you will be required to log in with your NetID and password when following a link from the Library web page. If you go directly to a subscription resource from an off-campus computer, you will not have access. You will need to find the resource through the Library web page in order to gain entry.

If you need any help accessing materials, please contact a reference librarian at the [Grainger Engineering Library](#) at (217) 333-3576 or email enginlib@library.illinois.edu.

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Dissertations & Theses

As part of the requirements for graduate level degrees, students must complete a thesis for a Master's degree and/or dissertation for a Ph.D. Dissertations and theses are submitted to the academic department and the Graduate College and are made available through the University Library. Since 2010, all theses and dissertations are electronically deposited into IDEALS, the Illinois Digital Environment for Access to Learning and Scholarship, the University's open repository of scholarly content.

ProQuest Dissertations is a comprehensive collection of citations to dissertations and theses worldwide from 1861 to the present day. Full text PDFs are available for many Ph.D. dissertations added since 1997 and some older graduate works.

- [IDEALS \(UIUC Institutional Repository\)](#). Digital copies of theses, data sets, and publications by University of Illinois at Urbana-Champaign faculty and students.
- [ProQuest Dissertations and Theses](#). PDF copies of dissertations and theses from U.S. universities.

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Print Dissertations & Theses

Prior to 2010, print format dissertations and theses were bound and cataloged separately for the Grainger Engineering Library. Prior to 1983, each thesis was shelved by a call number assigned by subject headings. To locate them, search the online catalog for the author's last name, title word(s) if known, and "theses" and the year granted as subject term(s).

Mechanical Science and Engineering dissertations and theses granted from 1985 to 1999 were assigned Q.629.1Ta, followed by the 2-number year, followed by starting letters from the author's last name. (Example: A 1991 thesis by M. Doyle would be Q.629.1Ta91D). Dissertations and theses granted from 2000 to present were assigned Q.629.1Tb, followed by the 2-number year, followed by starting letters from the author's last name. (Example: A 2006 thesis by H. Dewey would be Q.629.1Tb06De).

Mechanical Science and Engineering - Q. 621.8T

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Professional Mechanical Science & Engineering Societies

- [American Institute of Aeronautics and Astronautics \(AIAA\)](#)
Represents over 3,000 professionals in the fields of aerospace science, engineering, technology, management, and policy.
- [American Society of Mechanical Engineers \(ASME\)](#)
Represents over 120,000 researchers, scientists, students, project managers, and working professionals in all engineering disciplines.
- [Institute of Electrical and Electronic Engineers \(IEEE\)](#)
Represents over 400,000 professionals in technological fields, including electrical engineering, computer science, and electronics.
- [International Fluid Power Society \(IFPS\)](#)
Represents over 4,000 professionals in the fluid power and motion control industry.
- [Society of Automotive Engineers \(SAE\)](#)
Represents over 132,000 scientists, engineers, and practitioners in the aerospace, automotive, and commercial vehicle industries.
- [Society of Manufacturing Engineers \(SME\)](#)
Represents manufacturing practitioners and partners with industry, academic institutions, and government to support the current and future skilled workforce.
- [Society of Plastics Engineers](#)

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Represents over 20,000 members in the plastics industry, including engineers, scientists, and other plastics professionals.

- Society of Rheology.

Represents physicists, chemists, biologists, engineers, and mathematicians interested in advancing and applying rheology, the science of deformation and flow of matter.

- Vibration Institute

Represents over 2,300 technical professionals working in industry, academic institutions, and government who are dedicated to sharing "best practices" and information associated with evaluating machinery behavior and condition.

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A collection of online calculators used to compute standard engineering problems. Calculators are arranged by subject.
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