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THE AUTHORITATIVE DICTIONARY OF IEEE STANDARDS TERMS

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aurora Collective name of optical, electrical, and magnetic phenomena, generally at high latitudes, resulting from direct excitation of the upper atmosphere by energetic particles. (AP/PROP) 211-1997

auroral (power fault effects) Electrical voltages and currents on or around the earth, due to emission of particle energy from the sun. *See also:* susceptibility. (PE/PSC) 367-1979

auroral absorption The increased attenuation of radio waves propagating through the D and E regions of the ionosphere when additional ionization is produced by precipitating charged particles usually associated with the visual aurora. (AP/PROP) 211-1997

auroral attenuation (radio-wave propagation) The attenuation of radio waves propagating through the D and E regions of the ionosphere when additional ionization is produced by an aurora. (AP/PROP) 211-1990s

auroral effects Electrical voltages and currents on the earth due to emission of particle energy from the sun. (PE/PSC) 367-1996

auroral hiss Audio-frequency electromagnetic noise associated with auroras. (AP/PROP) 211-1997

auroral oval *See:* auroral zone.

auroral zone An annular region situated between approximately 60° and 70° geomagnetic latitude, north or south, in which auroras are frequently present. *Synonym:* auroral oval. (AP/PROP) 211-1997

austenitic The face-centered cubic crystal structure of ferrous metals. (IA) [59]

authentication (1) The process of validating a user or process to verify that the user or process is not a counterfeit. (C/PA) 1003.2d-1994

(2) The service used to establish the identity of one station as a member of the set of stations authorized to associate with another station. (C/LM) 8802-11-1999

(3) *See also:* data origin authentication. (LM/C) 802.10-1998

author and keyword in context index A variation of a keyword in context (KWIC) index in which author and keyword entries are combined and presented in a KWIC format. *Contrast:* word and author index. (C) 610.2-1987

authoring language (1) A high level programming language used to develop courseware for computer-assisted instruction. *See also:* authoring system. (C) 610.2-1987, 610.12-1990

(2) An application-oriented programming language used to develop courseware for computer-assisted instruction. (C) 610.13-1993w

authoring system A programming system that incorporates an authoring language. (C) 610.2-1987, 610.12-1990

authorities (monitoring radioactivity in effluents) Any governmental agencies or recognized scientific bodies that by their charter define regulations or standards dealing with radiation protection. (NI) N42.18-1980r

authority A geographical or political division created specifically for the purpose of providing transportation service. (VT) 1476-2000, 1475-1999

authority having jurisdiction (1) The organization, office, or individual that has the responsibility and authority for approving equipment, installations, or procedures. (IA) 515-1997

(2) That entity that defines the contractual (including specification) requirements for the procurement. (VT/RT) 1473-1999, 1475-1999, 1474.1-1999, 1476-2000

authorization The process of verifying that a user or process has permission to use a resource in the manner requested. To assure security, the user or process would also need to be authenticated before granting access. (C/PA) 1003.2d-1994

authorized bandwidth (mobile communication) The frequency band containing those frequencies upon which a total of 99% of the radiated power appears. *See also:* mobile communication system. (VT) [37]

auto alarm A radio receiver that automatically produces an audible alarm when a prescribed radio signal is received. (EEC/PE) [119]

autoanswer A capability of a terminal, modem, computer, or similar device to respond to an incoming call over the switched network, and to establish a data connection with a remote device without operator intervention. *See also:* autodial. (C) 610.7-1995

autochanger *See:* jukebox.

Autocoder An early symbolic programming language developed for programming computers. (C) 610.13-1993w

autocondensation (electrotherapy) A method of applying alternating currents of frequencies exceeding 100 kilohertz to limited areas near the surface of the human body through the use of one very large and one small electrode, the patient becoming part of the capacitor. *See also:* electrotherapy. (EMB) [47]

autoconduction (electrotherapy) A method of applying alternating currents, of frequencies exceeding 100 kHz for therapeutic purposes, by electromagnetic induction, the patient being placed inside a large solenoid. *See also:* electrotherapy. (EMB) [47]

autodial A capability of a terminal, modem, computer, or similar device to place a call over the switched network, and to establish a data connection without operator intervention. *See also:* autoanswer. (C) 610.7-1995

Autodynamics simulation language A simulation language used in dynamic simulation applications. (C) 610.13-1993w

autodyne reception A system of heterodyne reception through the use of a device that is both an oscillator and a detector. (EEC/PE) [119]

autoerection (gyros) The process by which gimbal axis friction causes the spin axis of a free gyro to tend to align with the axis about which the case is rotated. The resulting drift rate is a function of the angular displacement between the spin axis and the rotation axis. (AES/GYAC) 528-1994

auto ignition Ignition without a pilot source. (DEI) 1221-1993w

automated data medium *See:* machine-readable medium.

automated data processing *See:* automatic data processing.

automated design tool (software) A software tool that aids in the synthesis, analysis, modeling, or documentation of a software design. Examples include simulators, analytic aids design representation processors, and documentation generators. *See also:* simulator; design; documentation. (C/SE) 729-1983s

automated dictionary In machine-aided translation, an automated lexicon in which entries are single words. *Contrast:* automated glossary. (C) 610.2-1987

automated glossary In machine-aided translation, an automated lexicon in which entries may consist of multiple words. *Synonym:* terminology bank. *Contrast:* automated dictionary. (C) 610.2-1987

automated guideway transit Any guided transit mode with fully automated operation (i.e. no crew on the train). The term usually refers, however, only to guided modes with small and medium-sized vehicles that operate on exclusive right-of-way. (VT) 1475-1999

automated language processing The application of data processing, word processing, and machine-aided translation to the processing or translation of natural languages. (C) 610.2-1987

automated lexicon A computer-resident table of source language and target language equivalents that serves as the central component in a machine-aided translation system. *See also:* automated dictionary; automated glossary. (C) 610.2-1987

automated library A robotic (electromechanical) library. (C/SS) 1244.1-2000

automated office *See:* electronic office.

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