

McGRAW-HILL DICTIONARY OF SCIENTIFIC AND TECHNICAL TERMS

Sixth Edition

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On the cover: Representation of a fullerene molecule with a noble gas atom trapped inside. At the Permian-Triassic sedimentary boundary the noble gases helium and argon have been found trapped inside fullerenes. They exhibit isotope ratios quite similar to those found in meterorites, suggesting that a fireball meteorite or asteroid exploded when it hit the Earth, causing major changes in the environment. (Image copyright © Dr. Luann Becker. Reproduced with permission.)

Over the six editions of the Dictionary, material has been drawn from the following references: G. M. Garrity et al., Taxonomic Outline of the Procaryotes, Release 2, Springer-Verlag, January 2002; D. W. Linzey, Vertebrate Biology, McGraw-Hill, 2001; J. A. Pechenik, Biology of the Invertebrates, 4th ed., McGraw-Hill, 2000; U.S. Air Force Glossary of Standardized Terms, AF Manual 11-1, vol. 1, 1972; F. Casey, ed., Compilation of Terms in Information Sciences Technology, Federal Council for Science and Technology, 1970; Communications-Electronics Terminology, AF Manual 11-1, vol. 3, 1970; P. W. Thrush, comp. and ed., A Dictionary of Mining, Mineral, and Related Terms, Bureau of Mines, 1968; A DOD Glossary of Mapping, Charting and Geodetic Terms, Department of Defense, 1967; J. M. Gilliland, Solar-Terrestrial Physics: A Glossary of Terms and Abbreviations, Royal Aircraft Establishment Technical Report 67158, 1967; W. H. Allen, ed., Dictionary of Technical Terms for Aerospace Use, National Aeronautics and Space Administration, 1965; Glossary of Stinfo Terminology, Office of Aerospace Research, U.S. Air Force, 1963; Naval Dictionary of Electronic, Technical, and Imperative Terms, Bureau of Naval Personnel, 1962; R. E. Huschke, Glossary of Meteorology, American Meteorological Society, 1959; ADP Glossary, Department of the Navy, NAVSO P-3097; Glossary of Air Traffic Control Terms, Federal Aviation Agency; A Glossary of Range Terminology, White Sands Missile Range, New Mexico, National Bureau of Standards, AD 467-424; Nuclear Terms: A Glossary, 2d ed., Atomic Energy Commission.

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private branch exchange [COMMUN] A telephone exchange serving a single organization, having a switchboard and associated equipment, usually located on the customer's premises; provides for switching calls between any two extensions served by the exchange or between any extension and the national telephone system via a trunk to a central office. Abbreviated PBX. { 'pri·vət 'branch iks,chānj }

private branch exchange access line [ELEC] Circuit that connects a main private branch exchange (PBX) to a switching

center. { 'prī-vət 'branch iks,chānj 'ak,ses ,līn } private data [COMPUT SCI] Data that are open to a single user only. { 'prī·vət 'dad·ə }

private exchange [COMMUN] Telephone exchange serving a single organization and having no means for connecting to a public telephone system. { 'prī·vət iks'chānj }

private library [COMPUT SCI] An organized collection of programs and other software that is the property of a single user of a computer system and is not generally available to other users. { 'prī·vət 'lī,brer·ē }

private line [COMMUN] A line, channel, or service reserved solely for one user. { 'pri vət 'līn }

private line arrangement [COMPUT SCI] The structure of a computer system in which each input/output device has a set of lines leading to the central processing unit for the device's own private use. Also known as radial selector. { 'prī·vət līn ə.rāni mənt]

private line service [COMMUN] Service provided by United States common carriers engaged in domestic or international wire, radio, and cable communications for the intercity communications purposes of a customer: this service is provided over integrated communications pathways, including facilities or local channels, which are integrated components of intercity private line services, and station equipment between specified locations for a continuous period or for regularly recurring periods at stated hours. ['prī·vət ¦līn ,sər·vəs]

private pack [COMPUT SCI] A disk pack assigned exclusively to one application or one user so that the operating system does not try to allocate space on the device to others. { 'prī·vət 'pak }

private stream [HYD] Any stream which diverts part or all of the drainage of another stream. { 'pri·vət 'strēm }

privileged direction [OPTICS] One of two mutually perpendicular directions for the plane of polarization of a beam of plane-polarized light falling on a plate of anisotropic material such that the light which emerges from the plate is also planepolarized. { 'priv.a.lijd da'rek.shan }

privileged instruction [COMPUT SCI] A class of instructions, usually including storage protection setting, interrupt handling, timer control, input/output, and special processor status-setting instructions, that can be executed only when the computer is in a special privileged mode that is generally available to an operating or executive system, but not to user programs. { 'priv.ə.lijd in'strək.shən }

privileged mode See master mode. { 'priv.ə·lijd ,mod } PRML technique See partial-response maximum-likelihood technique. { pē¦ar em'el tek, nēk }

proaccelerin [BIOCHEM] A labile procoagulant in normal plasma but deficient in the blood of patients with parahemophilia; essential for rapid conversion of prothrombin to thrombin. Also known as factor V; labile factor. { pro-ak'sel-o-ron }

proactive interference [PSYCH] The situation in which old memories inhibit the learning of new memories. { pro,ak tiv ,in·tər'fir·əns }

proamnion [EMBRYO] The part of the embryonic area at the sides and in front of the head of the developing amniote embryo, which remains without mesoderm for a considerable period. { pro'am·nē, an }

Proanura [PALEON] Triassic forerunners of the Anura. { pro'an·yə·rə }

probabilistic automaton [COMPUT SCI] A device, with a finite number of internal states, which is capable of scanning input words over a finite alphabet and responding by successively changing its internal state in a probabilistic way. Also known as stochastic automaton. { präb· ə· bə'lis· tik o'täm· ə,tän }

probabilistic sampling [STAT] A process in which the laws of probability determine which elements are to be included in a sample. { präb·ə'lis·tik 'sam·pliŋ }

probabilistic sequential machine (COMPUT bilistic automaton that has the capability of words probabilistically, over a finite output known as stochastic sequential machine si'kwen·chəl mə'shēn }

si'kwen choi me shou, , probability [STAT] The probability of an set of the number of times it occurs to the large a to a the number of times it occurs to the large a that take place; the mathematical model of positive measure which gives the measure value I. { ,präb·ə'bil·əd·ē] probability amplitude See

Schrödinger { präb·ə'bil·əd·ē 'am·plə,tüd }

probability current density [QUANT MECH] component normal to a surface gives the proparticle will cross a unit area of the surface done

[,präb·ə'bil·əd·ē ¦kə·rənt ,den·səd·e] probability density [QUANT MECH] The sc

lute value of the Schrödinger wave function for lute value of the sector probability per unit volume given point; gives the probability per unit volume the particle at that point. { ,präb-abil-adie ,de probability density function [STAT] A real-

whose integral over any set gives the probability d variable has values in this set. Also known asd frequency function. { präb·o'bil·od·e denne shən }

probability deviation See probable error. dē·vē,ā·shən }

probability distribution See distribution Lorab dis·trə byü·shən }

probability forecast [METEOROL] A forecast bility of occurrence of one or more of a mutually of weather contingencies, as distinguished from categorical statements. { ,präb·ə'bil·əd·ē ,for kar

probability mass function [STAT] A function the relative frequency of each possible value of variable in an experiment involving a discrete set of Abbreviated p.m.f. { prab. a'bil.ad. [mas fath probability measure [MATH] The measure on a space. { prab.ə'bil.əd.ē mezh.ər }

probability paper [STAT] Graph paper with en-cially ruled to transform the distribution function of function to a straight line when it is plotted against as the abscissa. { präb·ə'bil·əd·ē pā·pər }

probability ratio test [STAT] Testing a sin against a simple alternative by using the ratio of the p of each simple event under the alternative to the pr the event under the hypothesis. [, prib-a'thirabe .test

probability sampling [STAT] A method of sal finite population where the probability of cod w being selected is known. { prab-a'bil ad e sat probability space [MATH] A measure space a measure of the entire space equals 1. 1, prair of all probability theory [MATH] The study of the structures and constructions used to analyze the p

a given set of events from a family of outcome ə'bil·əd·ē ,thē·ə·rē }

probable [ORD] 1. An instance in which is probably destroyed. 2. The hostile aircraft w { 'präb·ə·bəl }

probable error [STAT] The error that is exceed able with a probability of 1/2. Also known

deviation. ('präb-ə-bəl 'er-ər) probable maximum precipitation [METEORG retically greatest depth of precipitation for that is physically possible over a particular d certain time of year; in practice, this is derived on by storm transposition and moisture adjustme storm patterns. ['präb·ə·bəl 'mak·sə-mən

probable ore [MIN ENG] 1. A mineral dep developed ore but not yet proved by develop indicated ore. ('präb·ə·bəl 'or)

probable reserves [PETRO ENG] Prim reserves lest on limited evidence, but not pr mercial oil-production rate. { 'prilb's bal n proband [GEN] The clinically affected interview whom a family is found that can be used to a

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