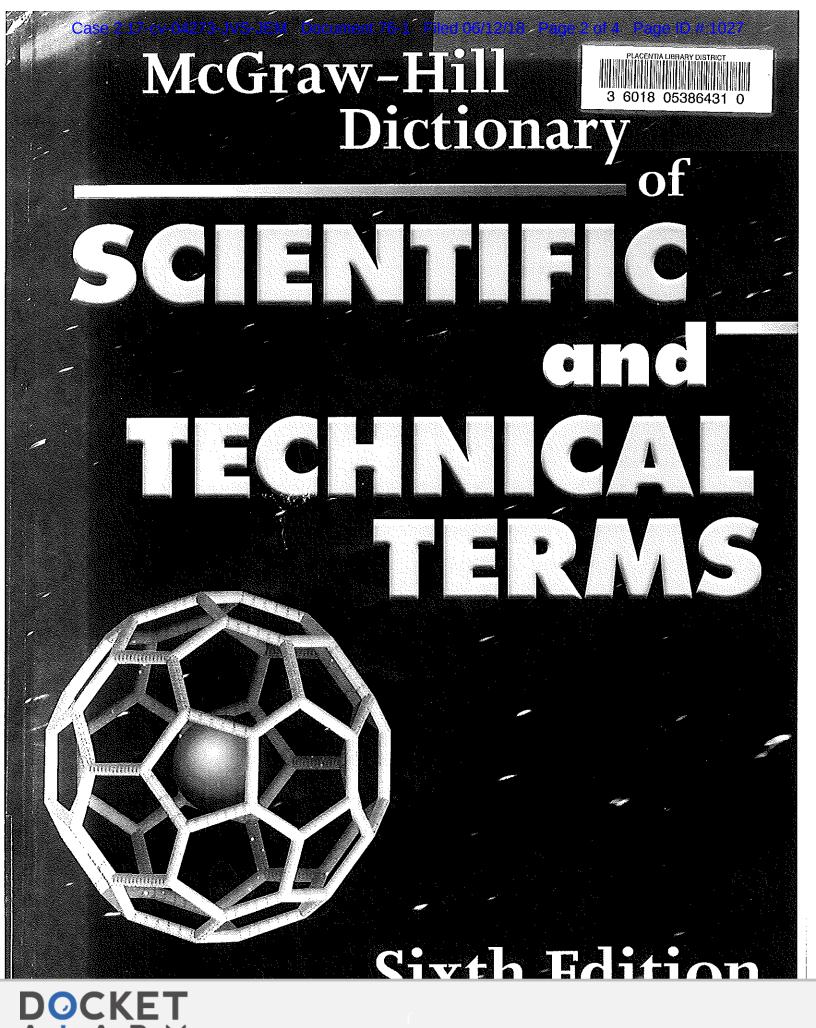
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# **EXHIBIT** A

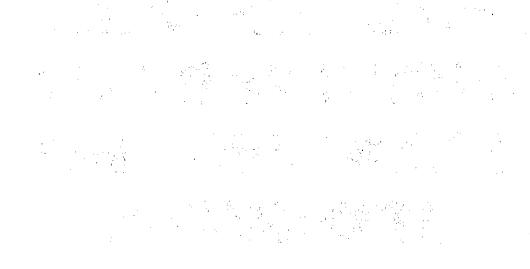
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On the cover: Representation of a fullerene molecule with a noble gas atom trapped inside. At the Permian-Triassic sedimentary boundary the noble gases helium and argon have been found trapped inside fullerenes. They exhibit isotope ratios quite similar 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.

## McGRAW-HILL DICTIONARY OF SCIENTIFIC AND TECHNICAL TERMS, Sixth Edition

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### transonic range

## transport cross section

2181

the range just above and just below the acoustic velocity. { tran'sān ik 'flō }

transonic range [FL MECH] The range of speeds between the speed at which one point on a body reaches supersonic speed, and the speed at which all points reach supersonic speed. { tran'sān ik 'rānj }

transonic speed [FL MECH] The speed of a body relative to the surrounding fluid at which the flow is in some places on the body subsonic and in other places supersonic. { tran'săn ik 'spēd }

transonic wind tunnel [ENG] A type of high-speed wind tunnel capable of testing the effects of airflow past an object at speeds near the speed of sound, Mach 0.7 to 1.4; sonic speed occurs where the cross section of the tunnel is at a minimum, that is, where the test object is located. { tran'sän ik 'wind ,tan el }

transorbital lobotomy [MED] A lobotomy performed through the roof of the orbit. { tranz'or bad al la'båd  $\rightarrow m\bar{e}$  } transosonde [ENG] The flight of a constant-level balloon, whose trajectory is determined by tracking with radio-directionfinding equipment; thus, it is a form of upper-air, quasi-horizontal sounding. { 'tran  $z\bar{e}_s$ sand }

transparency [GRAPHICS] An image fixed on a clear base by means of a photographic, printing, chemical, or other process, especially adaptable for viewing by transmitted light. [oPTICS] The ability of a substance to transmit light of different wavelengths, sometimes measured in percent of radiation which penetrates a distance of 1 meter. { trans'par an sē } transparency range [NUC PHYS] A postulated energy range for extremely high-energy heavy-ion collisions in which the projectile passes through the target and emerges with its temper-

ature and density raised to the point at which a quark-gluon plasma forms. { tranz par on se , tenj }

transparent [COMPUT SCI] Pertaining to a device or system that processes data without the user being aware of or needing to understand its operation. [PHYS] Permitting passage of radiation or particles. { trans'par ont }

transparent medium [OPTICS] 1. A medium which has the property of transmitting rays of light in such a way that the human eye may see through the medium distinctly. 2. A medium transparent to other regions of the electromagnetic spectrum, such as x-rays and microwaves. { trans'paront 'mēd-ēom }

transparent sky cover [METEOROL] In United States weather-observing practice, that portion of sky cover through which higher clouds and blue sky may be observed; opposed to opaque sky cover, { trans'par-ont 'skī, kov·or }

transpassive region [PHYS CHEM] That portion of an anodic polarization curve in which metal dissolution increases as the potential becomes noble. { trans'pasiv | te-jen}

transphasor [OPTICS] A nonlinear optical device that uses one light beam to modulate another, in a manner analogous to an electronic transistor, and that operates through the transfertace of a phase shift from one beam to the other. { {tranz 'laz-or }

Vanspiration [BIOL] The passage of a gas or liquid (in the form of vapor) through the skin, a membrane, or other tissue. { tranz pa'rā·shan }

tanspiration cooling See sweat cooling. {,tranz·pə'rā·shən 'kul·iŋ }

Unsplantation [BIOL] 1. The artificial removal of part of an organism and its replacement in the body of the same or of adifferent individual. 2. To remove a plant from one location and replant it in another place. { tranz.plan'tā.shən }

tensplantation antigen [IMMUNOL] An antigen in a cell Each induces a histocompatibility reaction when the cell is tensplanted into an organism not having that antigen. {,tranz.plan'tā-shon 'ant-i-jən }

Hinsplantation disease [MED] Disease ascribable to an immunological graft-versus-host reaction which occurs after tunsplantation of adult lymphoid cells to incompatible recipitets who cannot reject them. {,tranz-plan'tā-shan di,zēz } Hinsplanter [AGR] A special kind of equipment designed kr the planting of cuttings or small plants; it transports one or new workers who assist the action of the machine in placing gluts in a furrow and covering them; it commonly supplies a scall quantity of water to each plant. { tranz'plan-tor } hasplutonium element [NORG CHEM] An element having an atomic number greater than that of plutonium (94). { tranz-plotone-om 'el-o-mont }

transpolarizer [ELEC] An electrostatically controlled circuit impedance that can have about 30 discrete and reproducible impedance values: two capacitors, each having a crystalline ferroelectric dielectric with a nearly rectangular hysteresis loop, are connected in series and act as a single low impedance to an alternating-current sensing signal when both capacitors are polarized in the same direction; application of 1-microsecond pulses of appropriate polarity increases the impedance in steps. { trans'pō-la,riz-or }

transponder [COMMUN] 1. A transmitter-receiver capable of accepting the challenge of an interrogator and automatically transmitting an appropriate reply. 2. A receiver-transmitter, such as on satellites, which receives a transmission and retransmits it at another radio frequency. { trans/pan.dər }

transponder beacon See responder beacon. { tranz'pän-dər ,bē-kən }

transponder dead time [ELECTR] Time interval between the start of a pulse and the earliest instant at which a new pulse can be received or produced by a transponder. { tranz'pändər 'ded ,tīm }

transponder set [ELECTR] A complete electronic set which is designed to receive an interrogation signal, and which retransmits coded signals that can be interpreted by the interrogating station; it may also utilize the received signal for actuation of additional equipment such as local indicators or servo amplifiers. { tranz'pan-dor, set }

transponder suppressed time delay [ELECTR] Overall fixed time delay between reception of an interrogation and transmission of a reply to this interrogation. { tranz'pän dər sə'prest 'tīm di lā }

transport [COMPUT SCI] 1. To convey as a whole from one storage device to another in a digital computer. 2. See tape transport. [ENG] Conveyance equipment such as vehicular transport, hydraulic transport, and conveyor-belt setups. [NAV ARCH] A ship designed to carry military personnel from one place to another. Also known as troop ship. { trans'port (verb), 'tranz,port (noun) }

transportable computer [COMPUT SCI] A microcomputer that can be carried about conveniently but, in contrast to a portable computer, requires an external power source. { tranz'pord ə bəl kəm'pytid ər }

transportation [GEOL] A phase of sedimentation concerned with movement by natural agents of sediment or any loose or weathered material from one place to another. { transpar'tā shan }

transportation emergency [ENG] A situation which is created by a shortage of normal transportation capability and of a magnitude sufficient to frustrate movement requirements, and which requires extraordinary action by the designated authority to ensure continued movement. { ,tranz par'tā shan i,marjan sē }

transportation engineering [ENG] That branch of engineering relating to the movement of goods and people; major types of transportation are highway, water, rail, subway, air, and pipeline. { ,tranz.par'tā.shan ,en.ja,nir-iŋ }

transportation lag See distance/velocity lag. { ,tranz·pər'tāshən ,lag }

transportation problem [IND ENG] A programming problem that is concerned with the optimal pattern of the distribution of goods from several points of origin to several different destinations, with the specified requirements at each destination. { ,tranz-pər'tā-shən ,präb-ləm }

transport capacity [ENG] The number of persons or the tonnage (or volume) of equipment which can be carried by a vehicle under given conditions. { 'tranz,port kə,pas əd ë }

transport case [ENG] A moistureproof nonconductive wood, plastic, or fabric container used to transport safely small quantities of dynamite sticks to and from blasting sites. { 'tranz,port,kās }

transport cross section [PHYS] The product of the total scattering cross section and the average value of  $1 - \cos \theta$ , where  $\theta$  is the laboratory scattering angle. { trans,port 'kros, sek-shan }

