

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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[BIOL] Resembling or having the shape of a boat. { $no^{1}vik \cdot yo \cdot lor$ }

navicular cells [PATH] Boat-shaped squamous epithelial cells filled with glycogen and prominent in the exfoliated cells of the uterine cervix of pregnant women. { nə'vik·yə·lər ,selz }

naviculoid [BIOL] Referring to a diatom, boat-shaped. { navivk·ya,loid }

Navier's equation [MECH] A vector partial differential equation for the displacement vector of an elastic solid in equilibrium and subjected to a body force. { nä'vyāz i,kwā'zhən }

Navier-Stokes equations [FL MECH] The equations of motion for a viscous fluid which may be written $d\mathbf{V}/dt = -(1/\rho)\nabla p + \mathbf{F} + \nu\nabla^2\mathbf{V} + (^1/_3)\nu\nabla(\nabla\cdot\mathbf{V})$, where p is the pressure, p the density, F the total external force per unit mass, V the fluid velocity, and ν the kinematic viscosity; for an incompressible fluid, the term in $\nabla\cdot\mathbf{V}$ (divergence) vanishes, and the effects of viscosity then play a role analogous to that of temperature in thermal conduction and to that of density in simple diffusion. { nä'vyā 'stöks i,kwā·zhənz }

navigable airspace [NAV] Airspace at and above the minimum safe flight level, including airspace needed for safe takeoff and landing. { 'nav·i·gə·bəl 'er,spās }

navigable semicircle [METEOROL] That half of a cyclonic storm area in which the rotary and progressive motions of the storm tend to counteract each other, and the winds are in such a direction as to blow a vessel away from the storm track. { 'navviga·bəl 'semvi,sər-kəl }

 navigating bridge See flying bridge. { 'nav.ə,gād·iŋ ,brij }

 navigating officer [NAV] An officer serving as a navigator.

 { 'nav.ə,gād·iŋ ,of.ə.sər }

navigating sextant [NAV] A sextant designed and used for observing the altitudes of celestial bodies, as contrasted with a hydrographic sextant. { 'nav ə,gād iŋ ,sek-stənt }

navigation [COMPUT SCi] In a database management system, the techniques provided for locating information within the system. [ENG] The process of directing the movement of a craft so that it will reach its intended destination; subprocesses are position fixing, dead reckoning, pilotage, and homing. { ,nav.ə'gā·shən }

navigation accuracy measurement system [NAV] A simple height-finding radar system that employs a pulse radar with a rotating fan-beam antenna and a curve-fitting method to evaluate the accuracy of aircraft altitude-measuring equipment. { ,nav-9'gā:shən 'ak·yə·rə·sē 'mezh·ər·mənt ,sis·təm }

navigational aid [NAV] An instrument, device, chart, method, or such, intended to assist in the navigation of a craft; this expression should not be confused with "aid to navigation," which refers only to devices external to a craft. { ,nav- ∂ 'gä shon ∂ 1 'ād }

navigational almanac [NAV] A publication that contains tabulated positions of astronomical objects at regular intervals to enable navigators to determine their position. { ,nav-ə'gāshən-əl 'ól·mə,nak }

navigational planets [NAV] The four planets commonly observed for obtaining data for use in celestial navigation: Venus, Mars, Jupiter, and Saturn. { $_nav \cdot \vartheta' g \bar{a} \cdot sh \vartheta n \cdot \vartheta' | plan \vartheta t s$ }

navigational plot [NAV] A plot of the movements of a craft. $\{ ,nav \cdot \vartheta' g\ddot{a} \cdot shan \cdot \vartheta' | plat \}$

navigational satellite [AERO ENG] An artificial earthorbiting satellite designed for use in at least four widely different navigational systems. { ,nav $\neg^{3}g\bar{a} \cdot shan \neg a \cdot sad \cdot \neg a$. It } **navigational triangle** [NAV] In celestial navigation the navigation head [NAV] A transshipment point on a way where loads are transferred between water carriers land carriers. { ,nav.o'gā-shən ,hed } navigation lights [NAV] Statutory lights shown by an and vessels during the hours between subset and single accordance with international agreements. { jnavia gg.]Its }

navigation radar [NAV] A search radar used on ships marily for navigation purposes, to provide a visual indice of bearing and distance to any object that projects above surface of the water within the range of the radar o'gā·shon 'rā,där }

navigation system error [NAV] The difference between aircraft's true position and the position reported by its nave tion sensors. { ,nav-o'gā·shən ,sis təm ,er ər } navigator [NAV] A person who navigates or is direc responsible for the navigation of a craft. { /nav-a;gād ac navite [MNERAL] A porphyritic basalt containing phen crysts of altered olivine, augite, and basic plagicolase in groundmass of labradorite and augite. { /nāv,tt } NAVSTAR [NAV] A global system of up to 24 navigat satellites developed to provide instantaneous and highly ace rate worldwide three-dimensional location by air, sea, and in vehicles equipped with suitable receivers. Derived from navig tion system using time and ranging. { 'nav;stär }

Navy Electronics Laboratory International Algol Compile See NELIAC. { 'nā·vē i,lek¦trān·iks 'lab·rə,tōr·ē ,in·tər'nas ən·əl 'al,gol kəm'pīl·ərz }

Navy Heavy See bunker C fuel oil. { 'nā vē 'hev.ē.} Navy Oceanographic and Meteorological Automatic Devic [OCEANOGR] A 6-meter-long, boat-shaped, moored instrumented buoy. Abbreviated NOMAD. { 'hāv.ē oʻsha no'graf-ik and ,mēd.ē.o-rə'lāj.o-kəl 'od-ə,mad-ik di'vīs } Nb See niobium.

n-body problem See many-body problem. { 'en {bad, prab lam }

NBR See nitrile rubber.

n-cell [MATH] A set that is homeomorphic either with the set of points in *n*-dimensional euclidean space (n = 1, 2, ..., n whose distance from the origin is less than unity, or with the set of points whose distance from the origin is less than equal to unity. { 'en , sel }

N center [SOLID STATE] A color center which arises from continued exposure to light in the F band or to x-rays and which produces a faint absorption band on the long-waveleng side of the M band. Also known as G center. { 'en server

n-channel [ELECTR] A conduction channel formed by electrons in an *n*-type semiconductor, as in an *n*-type field-effect transistor. { 'en ,chan·əl }

n-channel metal-oxide semiconductor See NMOS. { [en , chan: ϑ], med: ϑ] [äk,sīd 'sem:i:kən,dək:tər } **n-colorable graph** [MATH] A graph whose nodes can be colored using one of *n* colors on each node in such a way that no edge connects a pair of nodes with the same color. [[en]

kəl·ə·rə·bəl 'graf } n-component [PARTIC PHYS] Cosmic-ray particles that can

take part in nuclear interactions, that is, nucleons, pions, and other baryons and mesons. { 'en kəm, põ-nənt }

n-connected graph [MATH] A connected graph for which the removal of *n* points is required to disconnect the graph { $en k_{nek} + ad$ [graf }

N curve [ELECTR] A plot of voltage against current for a

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