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Mila

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. Garnty 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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Grüneisen constant

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Grünelsen constant [SOLID STATE] Three times the bulk modulus of a solid times its linear expansion coefficient, divided by its specific heat per unit volume; it is reasonably constant for most cubic crystals. Also known as Grüneisen gamma. { 'grü·nīz·ən ,kän·stənt } Grüneisen gamma See Grüneisen constant. { 'grü·nīz·ən

,gam ə) Grüneisen relation [SOLID STATE] The relation stating that

the electrical resistivity of a very pure metal is proportional to a mathematical function which depends on the ratio of the temperature to a characteristic temperature. { 'gru-nīz-on

rila:shan] grunerite [MINERAL] (Mg,Fe);SisO22(OH)2 Varia phibole; forms monoclinic crystals. { 'grun-a;rft } [MINERAL] (Mg,Fe)7Si8O22(OH)2 Variety of am-

grus Se gruss. [grus] Grus [ASTRON] A constellation, right ascension 22 hours, declination 45°S. Also known as Crane. [grus] Gruss [GeoL] A loose accumulation of fragmental products

formed from the weathering of granite. Also spelled grus. { gris } GRWP theory [QUANT MECH] A theory that attempts to

resolve the quantum measurement paradox by postulating the existence of new laws whose corrections to quantum mechanics become significant over time periods of t_0/N , where t_0 is a characteristic time of the order of the age of the universe and Characteristic time of the order of the age of the universe and N is the number of particles in the system in question. Derived from Ghirardi-Rimini-Weber-Pearle theory. { $je_i^{i}ar_i^{i}dab$ əl,yü'pē ,thē·ə·rē }

alyupe inter-ore] gr wt See gross weight. gryke See grike. { grik } Gryllidae [INV ZOO] The true crickets, a family of orthop-teran insects in which individuals are dark-colored and chunky with long antennae and long, cylindrical ovipositors. { 'gril-o,de] Guldbheitdiae [INV ZOO] A measceneric family of orthop-teral data and the second se

Grylloblattidae [INV ZOO] A monogeneric family of crickets in the order Orthoptera; members are small, slender, wingless insects with hindlegs not adapted for jumping. 4 [,grilinsects with o'blad.ə,dē }

Gryllotaplidae [NV ZOO] A family of North American insects in the order Orthoptera which live in sand or mud; they eat the roots of seedlings growing in moist, light soils. { 'grilō'tal·pə,dē }

Gs See stimulatory G protein. **GSC** See gas-solid chromatography.

G scan See G scope. [16] skan] G scope [ELECTR] A cathode-ray scope on which a single signal appears as a spot on which wings grow as the distance to the target is decreased, with bearing error as the horizontal coordinate and elevation angle error as the vertical coordinate. Also known as G indicator; G scan. { 'jē ,skop }

Also known as G indicator, G scan. (je (sko)) **GSE** 5*ee* ground support equipment. **g service** [COMMUN] A Federal Aviation Administration service pertaining to aural and visual monitoring of radio aids to air navigation and of the landlines and radio communications

systems, to detect faulty operation. { jjë,sər.vəs } GSM [comMUN] A digital cellular telephone technology that is based on time-division multiple access; it operates on the 900-megahertz and 1.8-gigahertz bands in Europe, where it is the predominant cellular system, and on the 1.9-gigahertz band in the United States. Derived from global system for mobile communications.

Gapace [MATH] A topological space X together with a topological group G and a continuous function on the cartesian product of X and G to X such that if the values of this function at (x,g) are denoted by xg, then $x(g_1g_2) = (xg_1)g_2$ and xe = x where g_1 is the identity if G and xe = xwhere e is the identity in G and g_{1},g_{2} are elements in G. { 'jē, spās } GST See Greenwich sidereal time.

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G star [ASTRON] A star of spectral type G; many metallic lines are seen in the spectra, with hydrogen and potassium being strong; G stars are yellow stars, with surface temperatures of 4200-5500 K for giants, 5000-6000 K for dwarfs. { 'jë står.

G string See field waveguide. { 'jē ,striŋ }

suring see tield waveguide. { jē strit j }
 g Suit [ENG] A suit that exerts pressure on the abdomen and lower parts of the body to prevent or retard the collection of blood below the chest under positive acceleration. Also known as antic suit. { jē s, slt }
 GTP [CELL MOL] See guanosine 5'-triphosphate.

GTPase [CELL MOL] One of a family of monomeric GTP-

binding proteins. ['je,te]päs] **GTP-binding protein** [CELL MOL] 'One of a large family of heterotrimeric or monomeric proteins that bind GTP (guanosine 5'-triphosphate)' as intermediaries in intracellular signaling pathways. 'Also known as G protein. ['je,te'pē 'bīn-diŋ protein-1 pro.ten }

Guadaluplan [GEOL] A North American provincial series in the Lower and Upper Permian, above the Leonardian and

below the Cohen. [gwide-blue-ben h] gualac [MATER] A resin obtained from the trees Gualacum santum and G. officinale; soluble in alcohol, ether, and chloro-form; used in medicine and varnish. [gwi,ak] gualacol [ORG CHEM] C₆H₄(OH)OCH₃ A colorless, crys-talline compound, soluble in water; used as a reagent to deter-mine the presence of such substances as lignin, narceine, and

nitrous acid. {gwi-a,kol} gualazulene [PHARM] C₁₅H₁₈ A blue oil with a boiling point of 165-170°C; used as an anti-inflammatory drug. { gwī'az·ə,lēn }

guanajuatite [MINERAL] Bi₂Se₃ Bluish-gray mineral com-posed of bismuth selenide, occurring in crystals or masses. { gwän·ə'hwä.tīt }

guanidine [BIOCHEM] CH₃N₂ Aminomethanamidine, a product of protein metabolism found in urine. { 'gwanə.dēn }

guanidine-acetic acid See glycocyamine. { 'gwän-a,den

guanna [BIOCHEM] C₅H₅ON₅ A purine base; occurs naturally as a fundamental component of nucleic acids. { 'gwän,en } guano [MAT

guano [MATER] Phosphate- and nitrogen-rich, partially decomposed excrement of seabirds; used as a fertilizer. { 'gwän·ō }

guanophore See iridocyte. { 'gwän ə,for } guanoshne [BIOCHEM] C₁₀H₁₃O₃N₅ Guanine riboside, a nucleoside composed of guanine and ribose. Also known as

vernine. {'gwân 3,sên } guanosine 5'-triphosphate [CELL MOL] A nucleoside tri-phosphate that is instrumental in many cellular processes,

phosphate that is instrumental in many cellular processes, including microtubule assembly, protein synthesis, and cell signaling, due to the energy it releases upon removal of its terminal phosphate group (producing guanosine 5'-diphos-phate). Abbreviated GTP. { guan-3,sen ; fiv,prim

guanosine tetraphosphate [BIOCHEM] A nucleotide which participates in the regulation of gene transcription in bacteria by turning off the synthesis of ribosomal ribonucleic acid. { 'gwän-ə,sēn te-trə'fäs,fāt }

guanylic acid [BIOCHEM] A nucleotide composed of gua-nine, a pentose sugar, and phosphoric acid and formed during the hydrolysis of nucleic acid. Abbreviated GMP. Also known as guanosine monophosphate; guanosine phosphoric acid. { gwo'nil·ik 'as·od } guar [AGR] Cyanopsis tetragonaloba. A leguminous crop

guar adapted to semiarid regions of the southwestern United States

adapted to semiand regions of the southwestern United States and Mexico. Also known as cluster bean. { gwär } guard [ENG] A shield or other fixture designed to protect against injury. [MIN ENG] A support in front of a roll train to guide the bar into the groove. { gärd } guard ammunition [oRD] Ammunition specifically designed for use by guards, usually containing a reduced propel-ling observed. [Vieted enveloping)

Jung charge. [gard ann volnish on] guard arm [ELEC] 1. Crossarm placed across and in line with a cable to prevent damage to the cable. 2. Crossarm laced across and in line located over wires to prevent foreign wires from falling into

them. [gard arm] guard band [ELECTR] A narrow frequency band provided between adjacent channels in certain portions of the radio specum to prevent interference between stations. { 'gard, band } guard cell [BoT] Either of two specialized cells surrounding each stoma in the epidermis of plants; functions in regulating

each stoma in the epidening of plants, hardware in togening stoma size. ['gard, gard, gard əd kə'mand }



Grass cricket (Nemobius fasciatus).

GUANINE нŅ N Ĩ N N H H NH,

Structural formula of guanine.

GRYLLIDAE

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guard-electrode system

guard-electrode system [PETROENG] System of extra elec-trodes used during electrical logging of reservoir formations to confine the surveying current from the measuring electrode to a generally horizontal path. ['gärd i]lek,trod, sis-tom] guarding [ELEC]. A method of eliminating surface-leakage effects from measurements of electrical resistance which employs a low-resistance conductor in the vicinity of one of the terminals or a portion of the measuring circuit. { 'gard.in }, guard lock [CIVENC] See intrace lock. [ENC] An aux-iliary lock that must be opened before the key can be turned in a main lock. [[Gard,]]&] guard magnet [[MINENC]] A magnet employed in a crushing system to remove or arrest tramp iron ahead of the machinery.

{ 'gard ,mag·nət }

uardrall [CIVENG] 1. A handrail. 2. A rail made of posts and a metal strip used on a road as a divider between lines of traffic in opposite directions or used as a safety barrier on curves. 3: A rail fixed close to the outside of the iner rail on railway curves to hold the inner wheels of a railway car on the rail. Also known as check rail; safety rail; slide rail. ['gard_rfal] gooden of another is uncertain, safety fail, she fail, guard_relay.([ELEC]] Used in the linefinder circuit to make

sure that only one line finder can be connected to any line circuit when two or more line relays are operated simultaneously, { gard re.la.} guard ring [ELEC] A ring-shaped auxiliary electrode sur-

rounding one of the plates of a parallel-plate capacitor to reduce edge effects. [ELECTR] A ring-shaped auxiliary electrode used in an electron tube or other device to modify the electric field or reduce insulator leakage; in a counter tube or ionization chamber a guard ring may also serve to define the sensitive volume. [THERMO] A device used in heat flow experiments to ensure an even distribution of heat, consisting of a ring that surrounds the specimen and is made of a similar material. { 'gärd ,riŋ }

guard screen See oversize control screen. { 'gard ,skrën } // guard shield [ELECTR] Internal floating shield that sur-rounds the entire input section of an amplifier; effective shielding is achieved only when the absolute potential of the guard is stabilized with respect to the incoming signal.

guard signal [COMPUT SCI] A signal used in digital-to-ana-log converters, analog-to-digital converters, or other converters which permits values to be read or converted only when the values are not changing, usually to avoid ambiguity error. ['gard isig nol'] A grounded conductor placed beneath an

overhead transmission line in order to ground the line, in case it breaks, before reaching the ground. { 'gard wir }

guar gum [MATER] A mucilage formed from seeds of the guar plant; light-gray powder dispersible in water; used as a thickening agent in paper, foods, pharmaceuticals, and cosmetics. { 'gwär ,gəm }

Guarnieri body [PATH] Eosinophilic cytoplasmic inclusion bodies found in the epidermal cells of patients with smallpox or chickenpox. { gwar'nyer'ë băd-ë } guava [BOT] *Psidium guajava*. A shrub or low tree of tropi-

cal America belonging to the family Myrtaceae; produces an edible, aromatic, sweet, juicy berry. { 'gwäv ə } guayule [BOT] Parthenium argentatum. A subshrub of the

family Compositae that is native to Mexico and the southwest-ern United States; it has been cultivated as a source of rubber.

guba [мі { 'gü·bä } [METEOROL] In New Guinea, a rain squall on the sea.

['gubā] gubernaculum [ANAT] A guiding structure, as the fibrous cord extending from the fetal testes to the scrotal swellings. [INV ZGO] 1. A posterior flagellum of certain protozoans. 2. A sclerotized structure associated with the copulatory spicules

of certain nematodes. { gli·bər'nak-yə-ləm } Gudden-Pohl effect [ELECTR] The momentary illumination produced when an electric field is applied to a phosphor pre-viously excited by ultraviolet radiation. { 'gud-an 'pol i, fekt } Gudermannian [MATH] The function y of the variable y sat isfying $\tan y = \sinh x$ or $\sin y = \tanh x$; written gdx. ['gudor män ·ē· on }

gudgeon [ENG] 1. A pivot. 2. A pin for fastening stone blocks. [NAV ARCH] Metal fittings on the sternpost of a boat

or on the rudderpost of a ship on which the rudder is hung;

or on the rudderpost of a sing on much are routed is hung; the gudgeon forms the pivot point. { [goj-on] gudmundite [MINERAL] FeSbS A silver-white to steelgudmundite [MINERAL] reads A since-while to steel-gray orthorhombic mineral composed of a sulfide and antimon-ide of iron. ("gdd-man,dit.] Guerbet reaction [ORG CHEN]. A condensation of alcohols

Guernet reaction (Joro Cherny) - a consensation of accords at high temperatures through the action of sodium alkoxides, { gerba reakshan } guerrilla warfare, [ORD]. Operations carried on by indepen-

guerilla warfare [ORD]. Operations carried on by indepen-dent or semi-independent forces in the rear of the enemy; these operations usually are conducted by irregular forces acting either separately from, or in conjunction with, regular forces but may at times be conducted entirely with regular troops. { gə'ril·ə 'wär,fer }

{ go'ril 0 war, Ier } guess-warp [NAV ARCH] A line used in conjunction with a Jacob's ladder on the thimble of which boat crews reeve their

Jacob stadet on de families de la construction de l

interactions (electrostatic, invulgen obtaining, tait et waas, donor-acceptor) within a crystalline or molecular structure. Also known as guest molecule; guest substance. { gest } guest computer [COMPUT SCI] A computer that operates under the control of another computer (the host). { 'gest

kəm,pyüd·ər } guest element See trace element. { 'gest 'el-o-mont }

guest molecule See guest. { 'gest ,sab stans' } guest substance See guest. { 'gest ,sab stans } Guest unit [BIOL] A unit for the standardization of plasmin. 'gest ,yü·nət }

{ 'gest yuinat } Guggenheim process [CIV ENG] A method of chemical precipitation which employs ferric chloride and aeration to prepare sludge for filtration. { 'gug-on-him, präs-as.} GUI See graphical user interface. { 'gug-on-him, präs-as.} Gulana Current [OCEANOGR] A current flowing northwest-

ward along the northeastern coast of South America. { gī'ana.ka.rant }

guidance [NAV] The process of directing the movements of any vehicle, especially an aeronautical vehicle or space vehicle, with particular reference to the selection of a course or flight path. { 'gīd əns } guidance site [ENG] Specific location of high-order geo-

detic accuracy containing equipment and structures necessary to provide guidance services or a given launch rate; it may be an integrated part of a launch site, or it may be a remote facility. { gīd·əns sīt }

guidance station equipment [ENG] The ground-based portion of the missile guidance system necessary to provide guid-ance during missile flight; it specifically includes the tracking radar, the rate measuring equipment, the data link equipment, and the computer, test, and maintenance equipment integral to

base items. ("gid:ons,sts:shan i,kwip:mont.). guidance system (AERO ENG) The control devices used in guidance of an aircraft or spacecraft. [NAV] Apparatus for generating and detecting the path along which a vehicle or craft is guidance of the spacecraft. craft is guided, often remotely and automatically. { 'gīd əns sis tam }

guide bearing [MECH ENG] A plain bearing used to guide a machine element in its lengthwise motion, usually without

a machine element in its lengthwise motion, usually without rotation of the element, { [gid, ber-iŋ] { optiol guide bracket [MIN ENO] A steel bracket fixed to a bunton to secure rigid guides in a shaft. { [gid, brack-st }] guide coat; [MATER] A thin coat of paint applied to a surface over a sealer or filler to indicate the locations of bumps or imperfections and thereby to serve as a guide for removing them. { [gid, kot }

But a status to thereby to serve as a guide for removing them. {'gtd,kot}
guide coupling [MiN ENG] A short coupling with a projecting reamer guide or pup to which is attached a reaming bit. which it couples to a reaming barrel. {'gtd, kop.lin}
guided bend test [MET] A bend test in which the specimen is bent to a predetermined shape... {'gtd-ad 'bend,test }
guided bomb [ORD]. An arerial bomb that is guided in range or azimuth, or both, during its drop. ('gtd-ad 'bām')
guided missile [ORD] An uncrewed self-propelled vehicle. with or without, a warhead, which is designed to move in a and whose trajectory or course, while in flight, is capable of being directed by remote control, by homing systems, or by inertial or programmed guidance from within; excludes drones. inertial or programmed guidance from within; excludes drones-

EACUINCO

Grass wirket (New Sins lasefulas).

DWINAUD

Psidium guajava, showing a branch with leaves and two berries and a berry cut in half.

DOCKE.

RM

guided missile

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