



McGraw-Hill Dictionary of Scientific and Technical Terms Fifth Edition



MCGRAW-HILL SCIENTIFIC A Fifth Edition

> Sybil P. Parker Editor in Chief

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On the cover: Photomicrograph of crystals of vitamin B<sub>1</sub>. (Dennis Kunkel, University of Hawaii)

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tuning liquid; soluble in water with partial decomposition; organic synthesis catalyst and in electroplating. { |ffti-

[ORG CHEM]  $C_{18}H_{18}O_3$  A solid, crystalline commits a melting point of 70–71°C; used as an herbicide for cereals, and ornamental flowers cereals, and ornamental flowers. { 'flurə, nól } METEOROL] A brief shower of snow accompanied by of wind, or a sudden, brief wind squall. { 'flərē }

[ECOL] An evergreen herbaceous or nonflowering veggrowing in habitats where seepage water causes the to be constantly wet but rarely flooded. [ENG] Perto separate surfaces that are on the same level. A printing term that means no indention; headings of the run flush left, that is, they align at the left margin;

and the right. { flash } bead See quirk bead. { 'flash ,bed }

coat [CIV ENG] A coating of bituminous material, used reproof a surface. { 'fləsh ,kōt }

center See center-justify. { |flash 'sen-tar }

cover [GRAPHICS] In bookbinding, a book cover that been trimmed to the same size as the text pages inside.

zone resistivity [PETRO ENG] Electrical resistivity reservoir area which surrounds a borehole to a distance releast 3 inches (7.6 centimeters) and for which the original generatial fluids have been flushed out by drilling-mud filtrate. zon rē,zis'tiv-əd-ē }

gate [CIV ENG] A gate for flushing a channel that lies the gate of a dam. { 'flash ,gat }

[CIV ENG] The removal or reduction to a permissible dissolved or suspended contaminants in an estuary or [ENG] Removing lodged deposits of rock fragments moter debris by water flow at high velocity; used to clean conduits and drilled boreholes. { 'flash-in }

oll [MATER] A solvent oil designed to remove used meaning oil, decomposition products, and accumulated dirt brication passages, crankcase surfaces, and lubricated parts of automotive engines. { 'fləsh-in , oil }

period [HYD] The interval of time required for a metry of water equal to the volume of a lake to pass through late outlet; computed by dividing lake volume by mean flow at the outlet. { 'flash-in, pir-ē-ad }

ont casing [PETRO ENG] Lengths of casing that when meeted end to end form a smooth joint flush with the outer arear of the remainder of the section length. { 'flash 'joint

left See left-justify. { 'flosh 'left }

Secreter [ENG] A valve that discharges a fixed quantity sucr when a handle is operated; used to flush toilets and { flə'shäm·əd·ər }

production [PETRO ENG] First yield from a flowing oil ng its most productive period. { 'flash pra,dak shan } and fight See right-justify. { 'flash 'rīt }

artank [CIV ENG] 1. A tank in which water or sewage is and for periodic release through a sewer. 2. A small waterfor flushing a water closet. { 'fləsh ,taŋk }

Tave [ENG] A valve used for flushing toilets.

A groove having a curved section, especially parallel to the main axis, as on columns, drills, and other or conical shaped pieces. [GEOL] 1. A natural running vertically down the face of a rock. 2. A groove mentary structure formed by the scouring action of a sediment-laden water current, and having a steep upend. { flüt }

[GEOL] A raised, oblong, or subconical welt on the arface of a siltstone or sandstone bed formed by the a flute. { 'flüt ,kast }

chucking reamer [DES ENG] A machine reamer with or tapered shank and with straight or spiral flutes; the teeth are ground on a slight chamfer for end cutting. { re-mēn, ni-keda bea

toupling See stabilizer. ( 'flüd-əd 'kəp-lin )

th [DES ENG] On a twist drill, the length measured outside corners of the cutting lips to the farthest point end of the flutes. ('flüt ,lenkth)

age [ELECTR] Ferrite storage consisting of a number lengths of fine prism-shaped tubing, each surrounding axial conductor that acts as a word line; the lengths of tubing are intersected at right angles by parallel sets of insulated wire bit lines that are displaced slightly from the word lines; each intersection stores one bit. { 'flüt 'stor-ij }

fluting [MECH ENG] A machining operation whereby flutes are formed parallel to the main axis of cylindrical or conical parts. { 'flüd-in }

flutter [ACOUS] Distortion that occurs in sound reproduction as a result of undesired speed variations during the recording, duplicating, or reproducing process. [ELECTROMAG] A fastchanging variation in received signal strength, such as may be caused by antenna movements in a high wind or interaction with a signal or another frequency. [ENG] The irregular alternating motion of the parts of a relief valve due to the application of pressure where no contact is made between the valve disk and the seat. [FL MECH] aeronautical flutter. [MED] Rapid, regular contraction of the atrial muscle of the heart. { 'flad-ar }

flutter echo [ACOUS] A multiple echo in which the reflections rapidly follow each other. [ELECTROMAG] A radar echo consisting of a rapid succession of reflected pulses resulting from a single transmitted pulse. { 'fləd-ər ,ek-ō }

flutter valve [ENG] A valve that is operated by fluctuations in pressure of the material flowing over it; used in carburetors. 'fləd-ər valv }

fluvarium [ENG] A large aquarium in which the tanks contain flowing stream water maintained by gravity, not pumps. { flü'ver·ē·əm }

Fluvent [GEOL] A suborder of the soil order Entisol that is well-drained with visible marks of sedimentation and no identifiable horizons; occurs in recently deposited alluvium along streams or in fans. { 'flü·vənt }

fluvial [HYD] 1. Pertaining to or produced by the action of a stream or river. 2. Existing, growing, or living in or near a river or stream. { 'flü·vē·əl }

fluvial cycle of erosion See normal cycle. { 'flü·vē·əl 'sī·kəl əv ə'rö·zhən

fluvial deposit [GEOL] A sedimentary deposit of material transported by or suspended in a river. [ 'flü·vē·əl di'päz·ət ] fluvial sand [GEOL] Sand laid down by a river or stream. { |flü·vē·əl 'sand |

fluvial soil [GEOL] Soil laid down by a river or stream. [ 'ffüvē·əl 'soil }

fluviatile [GEOL] Resulting from river action. { 'fluvē-ə,tīl } fluviology [HYD] The science of rivers. { fluvē'āl-ə-jē } fluviomorphology See river morphology. { 'flü·vē·ō·mor'fäl·

flux [ELECTROMAG] The electric or magnetic lines of force in a region. [MATER] 1. In soldering, welding, and brazing, a material applied to the pieces to be united to reduce the melting point of solders and filler metals and to prevent the formation of oxides. 2. A substance used to promote the fusing of minerals or metals. 3. Additive for plastics composition to improve flow during physical processing. 4. In enamel work, a substance composed of silicates and other materials that forms a colorless, transparent glass when fired. Also know as fondant. [NUCLEO] The product of the number of particles per unit volume and their average velocity; a special case of the physics definition. Also known as flux density. [PHYS] 1. The integral over a given surface of the component of a vector field (for example, the magnetic flux density, electric displacement, or gravitational field) perpendicular to the surface; by definition, it is proportional to the number of lines of force crossing the surface. 2. The amount of some quantity flowing across a given area (often a unit area perpendicular to the flow) per unit time; the quantity may be, for example, mass or volume of fluid,

electromagnetic energy, or number of particles. { floks } fluxball [ELECTROMAG] A type of magnetic test coil in which the wire is wound into the form of a solid spherical winding by combining a series of coaxial cylindrical windings of different lengths; it gives accurate values of the magnetic flux density (or its variation) at its center, even in a nonuniform magnetic field. { 'fləks.ból }

flux-closure domain See closure domain. { 'fləks ,klō·zhər dō.mān }

flux-cored welding [MET] Welding with a metal electrode that has a flux core. { 'fləks 'kord 'weld-in }

flux density [NUCLEO] See flux. [PHYS] Any vector field whose flux is a significant physical quantity; examples are magnetic flux density, electric displacement, gravitational field, and the Poynting vector. { 'fləks ,den·səd·ē }

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