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DICTIONARY of ELECTRONICS

SEVENTH EDITION

REVISED AND UPDATED

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Typeset by Laser Words, Madras, India Printed in the United States of America nesh current in a closed path in a network. It may 10^{00} sections in a branch included in the path, or a 10^{00} total current in a branch included in the path, or a 10^{0} total current that, when combined with the others

^{public} current. ^{10 total} current. ^{10 total</sub> current. ^{10 total current.}}</sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup></sup> Message in a agreed set of communicating information. ¹/₁th ^{original} modulating wave in a communication ¹/₁th ^{original} arbitrary amount of information ¹ The original mount of information whose ¹ The 3. An arbitrary amount of information whose ¹ Stem, and end are defined or implied. 4. One or ^{sten} 3. An around of information whose ^{stenning} and end are defined or implied. 4. One or more ^{stenning} of data that contain the total information Keinning and that contain the total information to be wets of data that contain of characters that have a with the together and that always are handled then taken together and that always are handled as a

message center — Communication agency charged the responsibility for acceptance, preparation for the responsibility and delivery of messages minission, receipt, and delivery of messages.

message circuit — A long-distance telephone circuit message circuit a long-distance or tell message ding regular long-distance or toll service to red in providing as opposed to a circuit used for private-

message exchange — A service used between a line service. messes of the and a computer to perform certain ammunications functions and free the computer for other

message interpolation — Insertion of data between asks. silables or during speech pauses on a busy voice channel mbout noticeably affecting the voice transmission.

message precedence — Designations employed to micate the relative order in which a message of one pecedence designation is handled with respect to all other precedence designations.

message switching -1. The technique of data ransmission in which data may be received, stored until the proper line is available, then retransmitted. No direct connection is set up between the originator of the data and its destination. 2. Routing messages between three or more locations by store-and-forward techniques in a computer.

message unit-1. A unit of measurement used in charging for local telephone messages, based on time and distance between the parties. 2. Call measurement for a all within a local service area for which charges are accrued

message-waiting lamp — A small lamp on a telephone set that can be lighted (or flashed) from the switchbard (or call waiting panel) to notify a hotel or motel guest that a message is being held for him or her.

metadyne-British term for amplidyne. A directunent machine used for voltage regulation or transformation. It has more than two brushes for each pair of

metal—A material that has high electrical and thermal conductivity at normal temperatures.

metal-base transistor — A transistor with a base I a bin metal film sandwiched between two n-type Reniconductors, with the emitter doped more heavily than te base to give it a high electron-current-to-hole-current

Metal detector Also called metal locator. An hatonic device for detecting concealed metal objects. Metal-etched mask — A mask formed by chemi-

Wy etching openings in a metal film or plate where it is the protected by photoresist or other chemically resistant

the resistor — An electronic component in laver of the the resistive element is an extremely thin layer of Refail alloy vacuum-deposited on a substrate. Metal foil capacitor — A capacitor in which the dielectric

Rectordes consist of metal foils separated by a dielectric havisting of plastic film or paper.

RM



Metal film resistor.

metal gate - Refers to the use of aluminum as the gate conductor instead of silicon or refractory metals.

metal halide lamp-A discharge lamp in which the light is produced by the radiation from a mixture of metallic vapor (for example, mercury) and the products of the disassociation of halides (for example, halides of thallium, indium, or sodium).

metal-insulator silicon — See MIS.

metallic circuit — A circuit in which the earth itself is not used as ground.

metallic insulator - A shorted quarter-wave section of transmission line, which acts as an electrical insulator at the transmitted frequency.

metallic noise — Weighted noise current in a metallic circuit at a given point when the circuit is terminated at that point in the nominal characteristic impedance of the circuit.

metallic rectifier — A rectifier in which the asymmetrical junction between dissimilar solid conductors presents a high resistance to current flow in one direction and a low resistance in the opposite direction.

metallic rectifier cell—An elementary rectifying device having only one positive electrode, negative electrode, and rectifying junction.

metallic-rectifier stack—A single structure made up of one or more metallic rectifier cells.

metallization — 1. The deposition of a thin-film pattern of conductive material onto a substrate to provide interconnection of electronic components or to provide conductive contacts (pads) for interconnections. 2. A film pattern (single or multilayer) of conductive material deposited on a substrate to interconnect electronic components, or the metal film on the bonding area of a substrate that becomes a part of the bond and performs both electrical and mechanical functions. 3. The selective deposition of metal film on a substrate to form conductive interconnection between IC elements and points for connections with the outside world.

metallized capacitor — A capacitor that is made with dielectric film that has had metal vacuum-deposited on it. This thin metallization restricts the maximum current capacity, but at the same time provides a very high volumetric efficiency and a unique self-healing property. Any internal arcover (which could be triggered by a transient voltage spike) will usually clear itself by vaporizing the deposited metal film in the immediate area, thus extending the arc path beyond the sustaining gap length limit. Foil capacitors cannot clear in this manner and may therefore sustain the arcovers and short out.

metallized resistor - A fixed resistor in which the resistance element is a thin film of metal deposited on the surface of a glass or ceramic substrate.

metallizing — Applying a thin coating of metal to a nonmetallic surface. This may be done by chemical

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