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IEEE Standard Dictionary of Electrical and Electronics Terms

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impedance

). Radiant to produce usually is radiation efficiency. in ervthe-1 practical it (EU) or amount of erythemal vavelength 167 ering). The e being ire incident rface when 3 measured rythemally nicrowatts d practical n which is 167 r. uous stairs. See: ele-328 lav. character more charn the code 255,77 erage numtrons leavmary elecpe ratio is en, for exned to the field. See: 174 e arranged 13 sures. D). A mulan nuclear AC specifiaintenance lopment of 480 cable. ical Code) d of altervercurrent , feeders, connected designated during dislesigned to ion within 256 nic power pedance is

essential performance requirements

low enough so that the test currents under consideration would cause less than five (5) percent distortion (instantaneous) in the voltage amplitude or waveshape at the load terminals. 95

essential performance requirements (nuclear power generating stations). Requirements that must be met if a component, module, or channel is to carry out its part in the implementation of a protective function. 109

essential process control (electric pipe heating systems). The use of electric pipe heating systems to increase or maintain or both, the temperature of fluids (or processes) in desirably available or essential mechanical piping systems including pipes, pumps, valves, tanks, instrumentation, etcetera, in fossil fueled generating stations. An example of an essential process control system is the heating for the fuel oil system. 448

estimated life (performance)(thermal classification of electric equipment and electrical insulation). The expected useful service life based upon service experience or the results of tests performed in accordance with appropriate evaluation procedures established by the responsible technical committee, or both.

506 estimated position (navigation aid terms). The most probable position of a craft determined from incomplete data or data of questionable accuracy. 526 EU. See: erythemal flux.

evacuating equipment. The assembly of vacuum pumps, instruments, and other parts for maintaining and indicating the vacuum. See: rectification.

328

evanescent field (fiber optics). A time varying electromagnetic field whose amplitude decreases monotonically, but without an accompanying phase shift, in a particular direction is said to be evanescent in that direction. 433

evanescent mode (cutoff mode) (waveguide). A field configuration in a waveguide such that the amplitude of the field diminishes along the waveguide, but the phase is unchanged. The frequency of this mode is less than the critical frequency. See: waveguide. 179 evanescent mode. See: cutoff mode.

evanescent waveguide. See: cutoff waveguide.

event (1)(supervisory control, data acquisition, and automatic control)(station control and data acquisition). A discrete change of state (status) of a system or device. 570, 403

(2) (sequential events recording systems). A change in a process or a change in operation of equipment which is detected by bistable sensors. 48

event recognition (sequential events recording systems). The capability to detect and process changes of state of one or more inputs. 48 everyday load (composite insulators). The bare con-

ductor weight and wind load that predominates for the greatest period of time over the life of a line.

evh (power line maintenance). See: extra high voltage. 458 E-viton. See: erythemal flux.

evolving fault (power switchgear). A change in the current during interruption whereby the magnitude of current increases to a fault current or to a higher value of fault current in one or more phases.
103
EW (radar). (1) Abbreviation for early warning. (2)
Abbreviation for electronic warfare.
13
(2) (radar). Refers to the signal after envelope or

exchange

phase detection, which in early radar was the displayed signal. Contains the relevant radar information after removal of the carrier frequency. 13 exalted carrier reception. See: reconditioned carrier reception.

exception (software). An event that causes suspension of normal program execution. See: program execution. 434

exception condition (logical link control). The condition assumed by a logical link control (LLC) upon receipt of a command protocol data unit (PDU) which it cannot execute due to either a transmission error or an internal processing malfunction. 585 excess insertion loss (fiber optics). In an optical waveguide coupler, the optical loss associated with that portion of the light which does not emerge from the nominally operational ports of the device. See: optical waveguide coupler. 433

excess meter. An electricity meter that measures and registers the integral, with respect to time, of those portions of the active power in excess of the predetermined value. See: electricity meter (meter). 328 excess reactivity (power operations). More reactivity than that needed to achieve criticality. In order to avoid frequent reactor shutdowns to replace fuel that has been consumed and to compensate for the accumulation of fission products which have high neutron absorption cross sections and negative temperature coefficients, excess reactivity is provided in a reactor by including additional fuel in the core at startup. See: reactivity. 516

excess-three code (electronic computation). Number code in which the decimal digit n is represented by the four-bit binary equivalent of n + 3. Specifically:

| No. 199 | decimal digit | excess-three code |
|---------|---------------|---------------------------------------|
| | 0 | 0011 |
| | 1 100 1 | 0100 |
| | 2 | 0101 |
| | 3 | 0110 |
| | 4 | .0111 |
| | 5 | 1000 |
| | 6 | 1001 |
| | 7 | 1010 |
| | 8 | 1011 |
| | 9 | 1100 |
| | · | · · · · · · · · · · · · · · · · · · · |

See: binary-coded-decimal system. 235 exchange. See: central office exchange; private auto-

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artificial mouth, the center of the external plane of the lip ring. 491

modal position (1)(telephony). The position a telephone handset assumes when the receiver of the handset is held in close contact with the ear of a person with head dimensions that are modal for a population. For this standard, the modal positionis defined, by the modal head adopted by the CCITT (Comité Consulatif International Télégraphique et Téléphonique) Laboratory for the measurement of AEN. The point of reference for the handset and the head is the center of the circular plane of contact of the handset earcap and the ear. If the handset earcap is not circular or has no external plane of contact, an effective center and an effective plane of contact must be determined. The modal point is the position of the center of the lips with respect to the center and plane of the earcap point of reference. 122

(2)(transmission performance of telephone sets). The position a telephone-set handset assumes when the ear-cap of the handset is held in close contact with the ear of a modal head and the modal direction is in the plane defined by the axes of the transmitter cap and ear-cap. 491

mode (1)(binary floating point arithmetic)(radix-independent floating-point arithmetic). A variable that a user may set, sense, save, and restore to control the execution of subsequent arithmetic operations. The default mode is the mode that a program can assume to be in effect unless an explicitly contrary statement is included in either the program or its specification. The following mode is implemented: (A) Rounding, to control the direction of rounding errors. (B) In certain implementations, rounding precision, to shorten the precision of results. (C) The implementor may, at his option, implement the following modes: traps disabled or enabled, to handle exceptions. 469, 588 (2) (electron tubes). A state of a vibrating system to which corresponds one of the possible resonance frequencies (or propagation constants). *Note:* Not all dissipative systems have modes. *See:* modes, degenerate; oscillatory circuit. 190, 125

(3) (fiber optics). In any cavity or transmission line, one of those electromagnetic field distributions that satisfies Maxwell's equations and the boundary conditions. The field pattern of a mode depends on the wavelength, refractive index, and cavity or waveguide geometry. See: bound mode; cladding mode; differential mode attenuation; differential mode delay; equilibrium mode distribution; equilibrium mode simulator; fundamental mode; hybrid mode; leaky modes; linearly polarized mode; mode volume; multimode distortion; multimode laser; multimode optical waveguide; single mode optical waveguide; transverse electric mode; transverse magnetic mode; unbound mode. 433

mode conversion (waveguide). The transformation of
an electromagnetic wave from one mode of propaga-
tion to one or more other modes.267

mode conversion loss (or gain) (waveguide). The loss (or gain) due to the conversion of power from one waveguide mode to another. 267

mode coupler (waveguides). A coupler that provides preferential coupling to a specific wave mode. See: waveguide. 185

mode coupling (fiber optics). In an optical waveguide, the exchange of power among modes. The exchange of power may reach statistical equilibrium after propagation over a finite distance that is designated the equilibrium length. See: equilibrium length; equilibrium mode distribution; mode; mode scrambler.

433

mode dispersion. See: multimode distortion. mode (or modal) distortion. See: multimode distortion. mode filter (1) (fiber optics). A device used to select, reject, or attenuate a certain mode or modes.

433

(2) (waveguide components). A device designed to pass energy along a waveguide in one or more selected modes of propagation, and substantially to reject energy carried in other modes.
 166 mode, higher-order (waveguide or transmission line). Any mode of propagation characterized by a field configuration other than that of the fundamental or

first-order mode with lowest cutoff frequency. 185 nodel (1). A mathematical or physical representation

model (1). A mathematical or physical representation of the system relationships. *See:* mathematical model; system. 209

(2) (software). A representation of a real world process, device, or concept. See: analytical model; availability model; debugging model; error model; process; reliability model; simulation; statistical test model. 434

modeling. Technique of system analysis and design using mathematical or physical idealizations of all or a portion of the system. Completeness and reality of the model are dependent on the questions to be answered,

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