

phasors which can also be used in programmable calculators.

Part III (chs. 10, 14, and 15) can be used as a design tool in working with transmission lines and matching networks. Chapter 10 introduces a program for the calculation of characteristic impedances of different line configurations: coaxial, two-wire, single wire (with enclosure or ground), and strip line. Chapter 14 introduces a program to assist the engineer in designing a broadband matching network for antennas; it is used in conjunction with the well-known Smith Chart. (There was recently an article for using the Smith Chart on interactive computers: "Moving the Smith Chart to a Low-Cost Computer," by Mark Felton of INTCOMMEX Corp., in *Microwave Journal*, Oct. 1983.) Chapter 15 is a program for use in single-shub matching to lossless lines. Stub can be either open- or short-circuited.

Part IV of the book (chs. 11-13) is concerned with analog filter design. Noting that in digital filter design much use is made of analog filter design techniques, these programs should be of value to engineers in the signal processing area in both analog and digital domains. Chapter 11 introduces a program to calculate the attenuation characteristics and elements of a Butterworth filter. Chapter 12 is a program for calculating the attenuation characteristics and elements of a Chebyshev filter. Chapter 13 is a program for calculating the attenuation characteristics and elements of a composite constant-k and re-derived filters.

Part V (chs. 16-19 and chs. 22-23) discusses programs to be used in wave propagation and satellite communications. The program in ch. 16 is for calculating a basic transmission loss for a given smooth earth distance in the frequency range of 1 MHz-1 GHz with vertical or horizontal polarizations. In ch. 17 the program introduced will calculate the smooth earth distance for a given basic transmission loss. The program in ch. 18 is used for calculating the maximum usable frequency (MUF) and lowest usable frequency (LUF) for skywave propagation. The program in ch. 22 calculates the distance between two points on the earth's surface and the bearing; it also calculates the distance between a ground station and a satellite, and the zenith and bearing angles at the ground. Chapter 23 is a program for obtaining ground trace and altitude for communications satellites from known satellite ephemeris data.

Part VI (chs. 20-21) introduces basic programs useful for interference work, frequency allocation information, and a Morse-Code tutor. Chapter 20 is a program for calculating the intermodulation order on a given frequency produced by a set of transmit frequencies of a given intermodu-

lation order produced by a maximum of three transmitters. Chapter 24 is a program which provides a self-teaching, computer-aided course on the International Morse Code. It can be used for practice in receiving or copying Morse Code. Chapter 25 is a program which gives the authorized frequency bands and emission types for different United States amateur licenses.

In the course of this review, we encountered the following misprints or typographical errors:

p. 15: arrow head missing in definition of  $\phi$ .

p. 22:  $\alpha$  in equation (4-2) should be  $\phi$  (the confusion between  $\phi$ 's appears in several places in ch. 4).

p. 22: the definition of  $r$  following equation (4-2) should be corrected to:

$$r = \sqrt{(x-x')^2 + (y-y')^2}$$

p. 25: Fig. 3 from the top should read: where  $i_1$ ,  $i_2$ , and  $i_3$  are defined as:

p. 57: the word "azimuth" on the line following the Sample Problem is misspelled.

p. 72: the number "3" is missing from the note to the right of  $\alpha$ , in the second figure.

p. 84: the second line following the Sample Problem should read: ... having the colors brown, black, black, silver, brown.

p. 109: the superscript on "A" in the third line above equation (9-26) should be "c".

p. 115: "0" is missing in the diagram relating to equation (10-2); it should be placed on the vertical double-headed arrow shown on that figure.

p. 142: the value " $1 \mu$ " is missing for the second capacitor from left shown in the circuit diagram.

p. 162: the " $+$ " in the expression for  $z_{in}(0)$  shown in figure 15-3 should be changed to  $-$ .

p. 162: the " $+$ " sign to the left of " $1$ " in equation (15-15) is missing.

p. 175: the word "spherical" is misspelled on the line following equation (16-13).

p. 177: the units for conductivity in Table 16-1 should be "Mhos/m."

**Subramanian Ganesan** is an assistant professor in the Department of Electrical Engineering, Western Michigan University, where this past year he taught courses in computer architecture and digital systems. Dr. Ganesan received the B.E. degree in Electrical Engineering from P.S.G. College, India, in 1968; and the M. Tech. and Ph. D. degrees in Engineering from the Indian Institute of Science in 1971 and 1981, respectively. In 1983 he was a research associate in the Computer Science Department at Concordia University, Montreal, Canada. From 1971-1983 he was with the Systems Engineering Division of the National Aeronautical Laboratory, Bangalore, India, and from 1979-1980 he was a research fellow on a DAAD Fellowship at RWTH University, Bochum, West Germany.

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Dr. Mousavinezhad has also published material in various technical sources. He is a member of ASCE and of the IEEE. He was elected campus representative to ASCE in April 1984, and received Best Paper Award at ASCE's N. Central Conference, OSU, Columbus, OH, April 1984.

**Electro-Optical Communications Dictionary**  
Dennis Bodson and Dan Boser, Eds.  
Hayden Book Company, 1983.

Wim van Ebben, Reviewer

This "vocabulary" contains approximately 2500 entries in the field of fiber-optic and lightwave communications systems. It attempts to give a listing of terms and definitions associated with these technologies. One wonders whether it makes sense to publish such a dictionary only two years after a dictionary on the same subject has been issued (M.H. Weik's *Fiber Optics and Lightwave Communications Standard Dictionary*, Van Nostrand, 1981). Several definitions given in the book by Bodson and Boser are exactly the same as in Weik's dictionary, including some of the errors.

My critical remarks are subdivided into four categories.

• A few definitions are not fully correct. Examples are:

"**Avalanche gain:** Current gain obtained in avalanche photodiodes. . . . Symbol:  $M$ . . .  $M$  is the mean square value of the diode's internal gain. . . ." This erroneously suggests that the current gain in APDs and their mean squares are the same or have the same value.

"**Optical dispersion attenuation:** The attenuation of a signal in an optical waveguide, caused by the fact that each frequency component of a launched pulse is attenuated such that higher frequencies are attenuated more than lower frequencies, giving rise to attenuation distortion." For all practical modulation frequencies, an optical waveguide introduces only a negligible quantity of attenuation distortion. The transfer function is mainly determined by the phase distortion.

# Electro Optical Communications Dictionary

**Richard Bailey**



## **Electro Optical Communications Dictionary:**

**Electro-optical Communications Dictionary** Dennis Bodson, 1983-01-01      Fiber Optics Standard Dictionary Martin Weik, 2012-12-06  
Fiber Optics Vocabulary Development In 1979 the National Communications System published Technical Information Bulletin TB 79-1 Vocabulary for Fiber Optics and Lightwave Communications written by this author Based on a draft prepared by this author the National Communications System published Federal Standard FED STD 1037 Glossary of Telecommunications Terms in 1980 with no fiber optics terms In 1981 the first edition of this dictionary was published under the title Fiber Optics and Lightwave Communications Standard Dictionary In 1982 the then National Bureau of Standards now the National Institute of Standards and Technology published NBS Handbook 140 Optical Waveguide Communications Glossary which was also published by the General Services Administration as PB82-166257 under the same title Also in 1982 Dynamic Systems Inc Fiber Optic Sensor Technology Handbook co authored and edited by published the this author with an extensive Fiber Optic Sensors Glossary In 1989 the handbook was republished by Optical Technologies Inc It contained the same glossary In 1984 the Institute of Electrical and Electronic Engineers published IEEE Standard 812-1984 Definitions of Terms Relating to Fiber Optics In 1986 with the assistance of this author the National Communications System published FED STD 1037A Glossary of Telecommunications Terms with a few fiber optics terms In 1988 the Electronics Industries Association issued EIA 440A Fiber Optic Terminology based primarily on PB82-166257 The International Electrotechnical Commission then published IEC 731 Optical Communications Terms and Definitions In 1989 the second edition of this dictionary was published      **Communications Standard Dictionary** Martin Weik, 2012-12-06 Now in its Third Edition the Communications Standard Dictionary maintains its position as the most comprehensive dictionary covering communications technologies available A one of a kind reference this dictionary remains unmatched in the breadth and scope of its coverage and its primary reference for communications computer data processing and control systems professionals      **A Guide to the Literature of Electrical and Electronics Engineering** Susan Ardis, 1987      Electronic Design, 1985      Dictionary of Military and Associated Terms, 1986      HTMIAC Newsletter, 1991      Department of Defense Dictionary of Military and Associated Terms, 1987      Mastering Packet Radio Dave Ingram, 1988      Elsevier's Dictionary of Technical Abbreviations S. Bobryakov, M. Rosenberg, 2005-03-23 The English Russian dictionary of technical abbreviations contains nearly 65 000 entries covering various fields and subfields of engineering and technology Abbreviations are widely used in technical literature and as a rule they create difficulties for the reader Numerous abbreviations are used in technical literature dealing with space agriculture electronics computer science chemistry thermodynamics nuclear engineering refrigeration cryogenics machinery aviation business accounting optics radio electronics and military fields including abbreviations used on a wide scale by the Navy Airforce and the Army In many instances the same abbreviation is used in most different fields of engineering and technology though depicting different notions There are cases when the same abbreviation may have dozen

of meanings depending on the specific field of engineering The entries are arranged in alphabetical order A wide range of literature has been explored for the selection and translation of the abbreviations The dictionary has been compiled by comparing parallel texts in both languages and by consultation with experts This publication will be invaluable to the personnel of designing bureaus and research institutions and also to translators scientists researchers designers and university personnel dealing with various fields of engineering and technology approx 125 000 terms Journal of Optical Communications ,1994 **Walford's Guide to Reference Material: Science and technology** Albert John Walford, Library Association, 1999 A revised and updated guide to reference material It contains selective and evaluative entries to guide the enquirer to the best source of reference in each subject area be it journal article CD ROM on line database bibliography encyclopaedia monograph or directory It features full critical annotations and reviewers comments and comprehensive author title and subject indexes The contents include mathematics astronomy and surveying physics chemistry earth sciences palaeontology anthropology biology natural history botany zoology patents and interventions medicine engineering transport vehicles agriculture and livestock household management communication chemical industry manufactures industries trades and crafts and the building industry Department of Defense Dictionary of Military and Associated Terms United States. Joint Chiefs of Staff, 1986 Fiber Optics and Lightwave Communications Standard Dictionary Martin H. Weik, 1981

*ARBA Guide to Subject Encyclopedias and Dictionaries* Bohdan S. Wynar, 1986 Computer Decisions , 1983

*Dictionary of the Modern United States Military* S.F. Tomajczyk, 2008-02-11 Warspeak the language of the military can be for many civilians and for members of differing services an unintelligible hodgepodge of acronyms slang terms and field operation expressions Few laypersons may know that the Five F s is a derogatory expression though Army Navy Marine Air Force Coast Guard and others know or can infer that chairborn commandos are administrative and support personnel The more than 15 000 entries in this comprehensive dictionary provide an inside look at the United States military Weapons systems governmental agencies electronic warfare medical terms military infrastructure communications satellites and intelligence systems are among the topics covered in depth Also detailed are the acronyms and slang terms used by the soldiers in the field The work provides numerous cross references for ease of use along with a bibliography of over 2 200 sources

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**Selective Guide to Literature on Applied Optics ,1997      Fiber Optics Illustrated Dictionary J.K.**

Petersen,2002-12-26 Within a few short years fiber optics has skyrocketed from an interesting laboratory experiment to a billion dollar industry But with such meteoric growth and recent exciting advances even references published less than five years ago are already out of date The Fiber Optics Illustrated Dictionary fills a gap in the literature by providing instructors hobbyists and top level engineers with an accessible current reference From the author of the best selling Telecommunications Illustrated Dictionary this comprehensive reference includes fundamental physics basic technical information for fiber splicing installation maintenance and repair and follow up information for communications and other professionals using fiber optic components Well balanced well researched and extensively cross referenced it also includes hundreds of photographs charts and diagrams that clarify the more complex ideas and put simpler ideas into their applications context Fiber optics is a vibrant field not just in terms of its growth and increasing sophistication but also in terms of the people places and details that make up this challenging and rewarding industry In addition to furnishing an authoritative up to date resource for relevant industry definitions this dictionary introduces many exciting recent applications as well as hinting at emerging future technologies

## Decoding **Electro Optical Communications Dictionary**: Revealing the Captivating Potential of Verbal Expression

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