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Titolo	AIEE No 53-1952 : AIEE Proposed Guide for Operation and Maintenance of Dry Transformers with Class B Insulation / / Institute of Electrical and Electronics Engineers
Pubbl/distr/stampa	Piscataway, NJ, USA : , : IEEE, , 1952
ISBN	1-5044-0384-3
Descrizione fisica	1 online resource (6 pages)
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Soggetti	Electric transformers Transients (Electricity)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This guide covers general recommendations for the operation and maintenance of indoor, openly-ventilated, dry type distribution and power transformers with Class B insulation in ratings above 50 kva and above 600 volts, cooled by natural draft or forced draft.The successful operation of these transformers is dependent on proper installation, loading and maintenance as well as on proper design and manufacture. As with all electric apparatus, neglect of certain fundamental requirements may lead to serious trouble, if not to the loss of the equipment. For this reason, a wide distribution of information in regard to the care of dry type transformers is important, and these brief instructions are published for that purpose.In addition to the use of this guide, the manufacturer should be consulted for specific recommendations on special conditions. Also reference may be made to other publications, some of which are listed in the Appendix.

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Titolo	Tropospheric and ionospheric effects on global navigation satellite systems / / Timothy H. Kindervatter, Fernando L. Teixeira
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Nota di contenuto	Cover -- Title Page -- Copyright -- Contents -- Preface -- Chapter 1 Overview of the Global Positioning System -- 1.1 Introduction -- 1.2 Applications of GNSS -- 1.2.1 Applications of Standard GNSS Positioning -- 1.2.2 Applications of Centimeter and MillimeterLevel Positioning Accuracy -- 1.2.3 Applications of GNSS Timing Information -- 1.3 GPS Segments -- 1.3.1 Space Segment -- 1.3.2 Control Segment -- 1.3.3 User Segment -- 1.4 Keplerian Orbits -- 1.4.1 Shape of Orbit -- 1.4.2 Vernal Point -- 1.4.3 Kepler Elements -- 1.5 Satellite Broadcast -- 1.5.1 Carrier Frequencies -- 1.5.2 Digital Modulation -- 1.5.3 Ranging Codes -- 1.5.4 Navigation Message -- Chapter 2 Principles of GNSS Positioning -- 2.1 Introduction -- 2.2 Basic GNSS Observables -- 2.2.1 Pseudorange -- 2.2.2 Carrier Phase -- 2.2.3 Doppler Shift -- 2.3 GNSS Error Sources -- 2.3.1 Clock and Ephemeris Errors -- 2.3.2 Relativistic Effects -- 2.3.3 Carrier Phase WindUp -- 2.3.4 Atmospheric Effects -- 2.3.5 Multipath, Diffraction, and Interference Effects -- 2.3.6 HardwareRelated Errors -- 2.3.7 Dilution of Precision -- 2.3.8 Additional Error Sources -- 2.4 Point Positioning -- 2.4.1 Positioning Using Pseudorange -- 2.4.2 Accounting for

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B.4.3 Combined Effects of Dispersion and Conduction -- B.5 Kramers-Kronig Relations -- B.6 Anisotropic Media -- B.6.1 Dielectric Tensor Properties -- B.6.2 Wave Equation in Anisotropic Media -- B.6.3 Optical Axes -- B.6.4 Index Ellipsoid -- B.6.5 Phase and Group Velocity in Anisotropic Media -- B.6.6 Birefringence and Spatial Walkoff in k Surfaces -- B.7 Gyrotropic Media -- B.7.1 Gyrotropic Susceptibility Tensor -- B.7.2 Propagation in Gyrotropic Media -- Bibliography -- Index -- EULA.

Sommario/riassunto

"This book provides an accessible introduction to all the important effects caused by the ionosphere and the troposphere on GNSS RF signals. The origin of each type of propagation effect is explained from a fundamental physical perspective. The major methods used for measurement, prediction, and mitigation of ionospheric and tropospheric effects on GNSS are discussed in detail. Later chapters also discuss the mechanisms which drive ionization and plasma transport in the ionosphere; propagation phenomena such as scattering, absorption, and scintillations; and the major predictive models used to predict ionospheric propagation effects."--

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	Titolo	Bailliere's best practice and research in clinical rheumatology
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