

Electrical Measuring Instruments

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Electrical and Electronic Measurements John Wiley & Sons

The importance of measuring instruments is well known in the various engineering fields. The book provides comprehensive coverage of various electrical and digital measuring instruments. The book starts with explaining the classification and requirements of a measuring instrument. Then the book explains the PMMC and moving iron instruments. Extension of range of instruments using shunts and multipliers is also included in the book. The book includes detailed discussion of instrument transformers and power factor meters. The book covers the types of wattmeters, errors and compensations and two wattmeter method. The chapter on energy measurement includes discussion of energy meters, errors and compensations, calibration, phantom loading, trivector meter and Merz price maximum demand indicator. The book teaches the details of d.c. and a.c. potentiometers along with their applications. The book further explains various d.c. and a.c. bridges along with necessary derivations and phasor diagrams. It also includes the discussion of various magnetic measurements. Finally, the book includes the discussion of various digital meters such as digital voltmeters, digital multimeter, digital frequency meter and digital tachometer along with the automation in digital instruments. Each chapter gives the conceptual knowledge about the topic dividing it in various sections and subsections. Each chapter provides the detailed explanation of the topic, practical examples and variety of solved problems. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Electrical Measuring Instruments Technical Publications

The importance of measurements is well known in the field of Engineering. This book has been designed as a basic text for the undergraduate students of Electrical Engineering. This book meets the requirements of the syllabus of JNTU and other Universities

Modern Electronic Test and Measuring Instruments Universal-Publishers

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Electrical Measurements and Instrumentation S. Chand Publishing

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Electrical Measuring Instruments Butterworth-Heinemann

Excerpt from The Measurement of Electric Currents: Electrical Measuring Instruments; Meters for Electrical Energy The object of both of the valuable papers presented before the Institution of Civil Engineers included in this volume is to view the advances made of late years in the production of what may be termed commercial instruments for measuring commercial currents. In other words, the authors de vote their attention to the instruments having more or less of practicability to recommend them for the work of recording station output and securing station income. More than one class of apparatus is necessarily embraced within such a survey, and the paper by Mr. Swinburne is laudably comprehensive, there being in it a description in some detail, or a broad generalization that covers its principle, of well nigh every instrument that the electrical engineer cares to know anything about. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Electrical Measuring Instruments Forgotten Books

Electronic Measurement Techniques provides practical information concerning the techniques in electronic measurements and a working knowledge on how to adopt and use the appropriate measuring instruments. SI units are used as the unit of measurement in the book. The text contains chapters focusing on a variety of measurement techniques. The initial chapter discusses the system of measurements and principles used in electronic measurements. Subsequent chapters cover instruments for direct current measurement, electronic voltmeters, methods for the measurement of alternating currents and potential differences, and measurement of power. Chapters are also devoted to the elaboration of the construction of standards for comparison purposes and the measurement of non-electrical quantities. Engineers will find the book very useful.

Electrical Measuring Instruments I. K. International Pvt Ltd

The importance of measuring instruments and transducers is well known in the various engineering fields. The book provides comprehensive coverage of various electrical and electronic measuring

instruments, transducers, data acquisition system, storage and display devices. The book starts with explaining the theory of measurement including characteristics of instruments, classification, standards, statistical analysis and limiting errors. Then the book explains the various electrical and electronic instruments such as PMMC, moving iron, electro-dynamometer type, energy meter, wattmeter, digital voltmeters and multimeters. It also includes the discussion of various magnetic measurements, instrument transformers, power factor meters, frequency meters, phase meters and synchros. The book further explains d.c. and a.c. potentiometers and their applications. The book teaches various d.c. and a.c. bridges along with necessary derivations and phasor diagrams. The book incorporates the various storage and display devices such as, recorders, plotters, printers, oscilloscopes, LED, LCDs and dot matrix displays. The chapter on transducers is dedicated to the detailed discussion of various types of transducers such as resistive, capacitive, strain gauges, RTD, thermistors, inductive, LVDT, thermocouples, piezoelectric, photoelectric and digital transducers. It also adds the discussion of optical fiber sensors. The book also includes good coverage of data acquisition system, data loggers, DACs and ADCs. Each chapter starts with the background of the topic. Then it gives the conceptual knowledge about the topic dividing it in various sections and subsections. Each chapter provides the detailed explanation of the topic, practical examples and variety of solved problems. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Electrical Measurements and Measuring Instruments Palala Press

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Electrical Measuring Instruments Palala Press

A comprehensive work which examines modern instrumentation for testing and measurement. The author groups together common families of electronic instruments for ease of reference, provides discussion of VLSIs and ASICs, and describes the design trends of future instrument groups.

Electrical Measuring Instruments: Induction instruments, supply meters and auxiliary apparatus CRC Press

The book is meant for B.E./B.Tech. students of different universities of India and abroad. It contains all basic material required at undergraduate level. The author has included "Examination questions" from several Indian Universities as solved examples. The sections on "Descriptive Questions" and "Multiple Choice Questions" contains the theory type examination questions and objective questions respectively.

Industrial Electrical Measuring Instruments Technical Publications

This treatise on the subject Electrical Measurements and Measuring Instruments contains comprehensive treatment of the subject matter in simple, lucid and direct language. It covers the syllabi of the various Indian Universities in this subject exhaustively.

The Selection of Electrical Measuring Instruments and Their Use in Elementary Electrical Testing S. Chand

The field of electrical measurement continues to grow, with new techniques developed each year. From the basic thermocouple to cutting-edge virtual instrumentation, it is also becoming an increasingly "digital" endeavor. Books that attempt to capture the state-of-the-art in electrical measurement are quickly outdated. Recognizing the need for a text

American Standard Specifications for Automatic Nullbalancing Electrical Measuring Instruments Seagull Books Pvt Ltd

The importance of measuring instruments is well known in the various engineering fields. The book provides comprehensive coverage of various electrical, electronic and digital instruments, instrument transformers, measurement of power and energy, d.c. and a.c. bridges and oscilloscopes. The book starts with explaining the classification and requirements of a measuring instrument. Then the book explains the PMMC, moving iron and electro-dynamometer type instruments. Extension of range of instruments using shunts and multipliers is also included in the book. The book includes detailed discussion of instrument transformers and power factor meters. The book covers the types of wattmeters, errors and compensations. The chapter on energy measurement includes discussion of single and three phase energy meters, errors and compensations. The book teaches the details of d.c. and a.c. potentiometers along with their applications. The book further explains various d.c. and a.c. bridges along with necessary derivations and phasor diagrams. It also includes the discussion of various magnetic measurements. The book incorporates the discussion of oscilloscopes. It also explains the various oscilloscope measurements and Lissajous figures. Finally, the book includes the discussion of various digital meters such as digital voltmeters, digital multimeter, digital frequency meter and digital tachometer along with the automation in digital instruments. Each chapter starts gives the conceptual knowledge about the topic dividing it in various sections and subsections. Each chapter provides the detailed explanation of the topic, practical examples and variety of solved problems. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Electrical Measuring Instruments Catalog Palala Press

The inclusion of an electrical measurement course in the undergraduate curriculum of electrical engineering is important in forming the technical and scientific knowledge of future electrical engineers. This book explains the basic measurement techniques, instruments, and methods used in everyday practice. It covers in detail both analogue and digital instruments, measurements errors and uncertainty, instrument transformers, bridges, amplifiers, oscilloscopes, data acquisition, sensors, instrument controls and measurement systems. The reader will learn how to apply the most appropriate measurement method and instrument for a particular application, and how to assemble

the measurement system from physical quantity to the digital data in a computer. The book is primarily intended to cover all necessary topics of instrumentation and measurement for students of electrical engineering, but can also serve as a reference for engineers and practitioners to expand or refresh their knowledge in this field.

Electronic Measurements and Instrumentation Inst of Engineering & Technology

The Measurement of Electric Currents Technical Publications

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