

A COURSE IN

# Electrical and Electronic Measurements & Instrumentation



## **Salient Features :**

- Simple and Lucid Text.
- Comprehensive Treatment to Different Types of Instruments Including Modern, Digital and Microprocessor Based Instruments.
- Large Number of Figures/Diagrams for Illustration.
- Wide Coverage of Syllabi Prescribed by Various Universities.
- Systematically Arranged Large Number of Worked-out Examples, from Previous Years' Question Papers of Various Universities and Agencies Conducting
- Competitive Examinations, for Illustration and Understanding of Concepts.
- For Self Assessment/Evaluation Systematically Arranged
  - a) Short Answer Type Questions with Answers
  - b) Theoretical Questions
  - c) Unsolved Numerical Problems with Answers
  - d) Objective Questions with Answers.

**J. B. GUPTA**

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Books

# Electrical Measurements Instrumentation Textbook J B Gupta

**J. B. Gupta**



## **Electrical Measurements Instrumentation Textbook J B Gupta:**

Electrical Measurements and Measuring Instruments J B Gupta, 1969      A Course In Electronics & Electrical Measurements And Instrumentation J. B. Gupta, 2008      *Course in Electronics and Electrical Measurements and Instrumentation* J. B. Gupta, 2009      Electronic Measurements and Instrumentation RK Rajput, 2009 In this edition the book has been completely updated by adding new topics in various chapters Besides this two new chapters namely Microprocessors and Microcontrollers Chapter 13 and Universities Questions Latest with Solutions Chapter 14 have been added to make the book still more useful to the readers      Electrical Measurements and Instrumentation Uday A. Bakshi, Late Ajay V. Bakshi, 2020-11-01 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 electrodynamic 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* R. K. Rajput, 2009-09 This treatise on the subject Electrical Measurements and Measuring Instruments contains comprehensive treatment of the subject matter in simple lucid and direct language I covers the syllabi of the various Indian Universities in this subject exhaustively      **Indian Books in Print** ,2003      **National Catalogue of University Level Books, 1971** ,1972      *Bulletin of the Institution of Engineers (India)*. Institution of Engineers (India), 1974      *Electrical Technology* N. P Subramaniam, 2017-08-04 ELECTRICAL TECHNOLOGY is systematically developed to meet the syllabus of undergraduate course in Electrical Engineering of various universities The complicated concepts are explained in a lucid manner with the help of necessary diagrams and waveforms Comprehensive

coverage has been made to explain the concepts of application level topics like Electric Traction and Power Electronics Review questions have been added at the end of each chapter for better understanding of the subject apart from numerous numerical and design problems

**Instrumentation and Measurement in Electrical Engineering** Roman Malaric, 2011

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

**Electrical And Electronic Measurements** A S K Bhattacharya, Electrical and Electronic Measurement and Instrumentation is one of the core subjects taught to Electrical Electronic and Instrumentation students at B Tech and other equivalent levels The content of this book has been prepared after consulting the syllabuses of a large number of Indian universities Although books are available on this subject it was felt necessary to prepare the one that exactly responds to the students learning needs and to create their interest in this subject Thus the presentation here has been especially made simple and easy to understand

*Books from India* ,1975      International Books in Print ,1991

Books India ,1975      **Electronic Measurements and Instrumentation** RS Sedha, 2013 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

A Course in Electronic and Electrical Measurements and Instrumentation J. B. Gupta, 1998      **Journal of the Institution of Electronics and Telecommunication Engineers** Institution of Electronics and Telecommunication Engineers (India), 1979      Indian Books ,1972      *Subject Guide to Books in Print* ,1991

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### **Electrical Measurements Instrumentation Textbook J B Gupta Introduction**

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