

A Textbook Of Electrical Technology Volume 3

A Textbook of Electrical Technology S. Chand Publishing

A Textbook of Electrical Technology (Vol. IV) Multicolor pictures have been added to enhance the content value and give to the students an idea of what he will be dealing in reality and to bridge the gap between theory and practice. A notable feature is the inclusion of chapter on Flip-Flops and related Devices as per latest development in the subject. Latest tutorial problems and objective type questions specially for GATE have been included at relevant places.

This is a single-volume book on 'electrical machines' that teaches the subject precisely and yet with amazing clarity. The extent has been kept in control so that the entire subject can be covered by students within the limited time of the semesters. Thus, they will not have to consult multiple books anymore. The discussions of concepts include the modern trends used in industry, like efficient transformers, efficient induction motors, DC drives, and the problems related to them.

This best-selling textbook, now in its eleventh edition, provides the clear and accessible introduction to electrical and electronic technology that all engineering students need. With a balanced coverage of electrical, electronic, and power engineering, Hughes Electrical and Electronic Technology is a must-have text for all university and college engineering students, including those not studying for an electrical or electronic degree. It is also appropriate as a reference for practitioners and technicians working in this, or any other engineering discipline. This edition has been significantly updated to include more on green topics like renewable energy and smart grid systems, and on technological advances such as particle accelerators. Key features include; chapter objectives and summaries plus worked examples and numerous practice problems.

This textbook for courses in electrical principles, circuit theory, and electrical technology takes students from the fundamentals of the subject up to and including first degree level. The coverage is ideal for those studying engineering for the first time as part of BTEC National and other pre-degree vocational courses, especially where progression to higher levels of study is likely, as well as Higher Nationals, Foundation Degrees and first year undergraduate modules. The emphasis is firmly on learning by example: 800 detailed worked problems give a thorough understanding of the principles 1,000 further problems within 175 exercises to work through and test learning (answers provided) 14 revision tests which can be used as assignments (answers available to lecturers only) Learning objectives are summarised at the beginning of each chapter Summaries of main formulae used Now in its third edition, this best-selling textbook has been updated with developments in key areas such as semiconductor diodes, transistors, batteries and fuel cells, along with brand new material on ABCD parameters and Fourier's Analysis. Greater emphasis is also placed on showing how the theory covered is applied in real-life engineering practice. In addition, the

text has been restructured and exercises now appear at regular intervals so that learning progress can be checked throughout. Support material for tutors is available as a free download at <http://textbooks.elsevier.com> An Instructors' Manual giving full solutions and suggested marking scheme for all 14 revision tests in the book An extensive Solutions Manual for over 700 of the 1,000 further questions in the book

In the present edition, authors have made sincere efforts to make the book up-to-date. A notable feature is the inclusion of two chapters on Power System. It is hoped that this edition will serve the readers in a more useful way.

A multicolor edition of Vol. II of A Textbook of Electrical Technology to keep pace with the ever-increasing scope of essential and modern technical information, the syllabi are frequently revised. This often results into compressing established facts to accommodate recent information in the syllabi. Fields of power-electronics and industrial power-conditioners have grown considerably resulting into changed priority of topics related to electrical machines. Switched reluctance-motors tend to threaten the most popular squirrel-cage induction motors due to their increased ruggedness, better performance including controllability and equal ease with which they suit rotary as well as linear-motion-applications.

The primary objective of vol. I of A Text Book of Electrical Technology is to provide a comprehensive treatment of topics in Basic Electrical Engineering both for electrical as well as nonelectrical students pursuing their studies in civil, mechanical, mining, textile, chemical, industrial, environmental, aerospace, electronic and computer engineering both at the Degree and diploma level. Based on the suggestions received from our esteemed readers, both from India and abroad, the scope of the book has been enlarged according to their requirements. Almost half the solved examples have been deleted and replaced by latest examination papers set up to 1994 in different engineering colleges and technical institutions in India and abroad.

For Mechanical Engineering Students of Indian Universities. It is also available in 4 Individual Parts

A textbook of Electrical Technology. In this edition, two new chapters have been added namely Rating & Service Capacity and distribution Automation. The First chapter will be useful to degree/diploma students undergoing their first course in Electrical Drives. It also contains many solved problems for the benefit of students. Another new chapter 'distribution Automation' is a latest development in the field of Electrical Power System Engineering. Till recent years, stress was given on Generation and Transmission.

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