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# Basic Electrical Engineering BI Theraja

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Elements of Electrical and Mechanical Engineering Springer Nature  
For Mechnaical Engginering Students of Indian Universities.It is also available in 4 Individual Parts  
Basic Electrical Engineering S. Chand Publishing

Fundamentals of Electrical Engineering and Electronics is a useful book for undergraduate students of electrical engineering and electronics as well as B.Sc. Electronics. The book discusses concepts such as Network Analysis, Capacitance, Electromagnetic Induction, Motors Circuits and Diodes in an easy to relate and thereby understand manner. Designed in accordance with the syllabi of most major universities, the book is an essential resource for anyone aspiring to learn the fundamentals and teaches students much about the subject itself. A book which has seen, foreseen and incorporated changes in the subject for more than 50 years, it

continues to be one of the most sought after texts by the students.

Objective Electrical, Electronic and Telecommunication Engineering S. Chand  
A multicolor edition of Vol.II of A Textbook of Electrical Technology to keep pace with the ever-increasing scope of essential and morden technical information,the syllabi are frequently revised.This often result 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.

*A Textbook of Electrical Technology* S. Chand Publishing

This book presents the subject matter in a clear and concise manner with numerous diagrams and examples

**A Textbook of Electrical Technology - Volume IV** S. Chand Publishing

Aims of the Book:The foremost and primary aim of the book

is to meet the requirements of students pursuing following courses of study: 1. Diploma in Electronics and Communication Engineering (ECE)-3-year course offered by various Indian and foreign polytechnics and technical institutes like City and Guilds of London Institute (CGLI). 2. B.E. (Elect. & Comm.)-4-year course offered by various Engineering Colleges. efforts have been made to cover the papers: Electronics-I & II and Pulse and Digital Circuits. 3. B.Sc. (Elect.)-3-Year vocationalised course recently introduced by Approach.

**A Textbook of Applied Electronics** S. Chand Publishing

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.

*Fundamentals of Electrical Engineering and Electronics* 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.

*Objective Electrical, Electronic and Telecommunication Engineering* Laxmi Publications, Ltd.

About the Book: Basic Electrical Engineering has been written as a core course for all engineering students viz. electronics and communication engineering, computer engineering, civil engineering, mechanical engineering etc. Since this course will normally be offered at the first year level of engineering, the author has made modest effort to give in a concise form, various features of Basic Electrical Engineering using simple language and through solved examples, avoiding the rigorous of mathematics. The salient features of this edition D.C. Circuits along with Ohm's law and Kirchhoff's laws explained. Faraday's laws of electromagnetic induction, Lenz's law, Hysteresis losses and eddy current losses have been discussed. Steady state

analysis of a.c. circuits explained. Network theorems explained using typical examples. Analysis of 3-phase circuits and measurement of power in these circuits explained. Measuring instruments like ammeter, voltmeter, wattmeter and energy meter described. Various electrical machines viz. transformers, d.c. machines, single phase and three phase induction motors, synchronous, machines, servomotors have been described. A brief view of power system including conventional and non-conventional sources of electric energy is given. Domestic wiring has been discussed. Numerous solved examples and practice problems for thorough grasp of the subject presented. A large number of multiple choice questions with answer given.

Contents: D.C. Circuits  
Electromagnetic Induction A.C. Circuits Network Theory Three Phase Supply Basic Instruments  
Transformer D.C. Machines Three-Phase Synchronous Machines Three-Phase Induction Motors Single Phase Induction Motors Power System  
Domestic Wiring

Modern Physics New Age  
International Limited  
Publishers

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*Fundamentals of Electrical Engineering and Electronics*  
S. Chand Publishing  
A Textbook on Electrical Technology  
Basic Electronics S. Chand Publishing

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

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upto 1994 in different engineering collage and technical institutions in India and abroad.

Principles Of Electrical Engineering And Electronics

S. Chand Publishing

This Book extensive pruning of the solved Examples in the text. Majority of the old examples have been replaced by questions set in the latest examination papers of different engineering colleges and technical institutions.

Electronic devices & circuits in S.I. system of units S. Chand Publishing

For close to 30 years, "Basic Electrical Engineering" has been the go-to text for students of Electrical Engineering. Emphasis on concepts and clear mathematical derivations, simple language coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject. Divided into 17 chapters, the book covers all the major topics such as DC Circuits, Units of Work, Power and Energy, Magnetic Circuits, fundamentals of AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand.

*Fundamentals of Electrical Engineering and Electronics*

S. Chand Publishing

In this book we have included more examples, tutorial problems and objective test questions in almost all the

chapters. The chapter on Optoelectronic Devices has been expanded to include more application examples in the area of optical fibre networks. The chapter on Regulated Power Supply carries more detailed study of fixed positive-Fixed negative and adjustable-linear IC voltage regulators as well as swithching voltage regulator. The topic on OP-AMPS has been separated from the chapter on integrated Circuits. A new chapter is prepard on OP-AMPS and its Applications. The Chapter on OP-AMPS and its Applications includes OP-AMP based Oscillator circuits, active filters etc.

Principles of Electronics S. Chand Publishing

Aiming at a better understanding of power system harmonics, this text presents a discussion of this issue, providing a quantitative analysis when possible. Pertinent equations are developed. 80 practical case studies based on real-life work experience come with the text. These are analysed providing the results and commenting on the output. Furthermore, 80 end-of-chapter problems are provided. A detailed solution manual is available. The book can be used as a textbook for

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undergraduate and graduate students, in short-courses offered by consultants and institutes, as well as a tutorial, reference, or self-study course for practising engineers in the industry and electric utility.

*Fundamentals of Electric Circuit Theory* S. Chand Publishing

This is the sixteenth edition of the textbook. It includes solutions of A.M.I.E. papers. Some of the latest questions from B.E., B.Sc(Engg.) and B.Sc(General) examinations of various Indian Universities have also been added. Special features the book is that all the diagrams are redrawn & made by computer. The size of the book is all changed as per the present trend of various popular textbooks.

### **Principles of Electronic**

**Devices & Circuits** S. Chand Publishing

A Textbook on Electrical Technology

Textbook of Electrical Technology S. Chand Publishing

The present book has been thoroughly revised and lot of useful material has been added. Several photographs of electronic devices and their specifications sheets have been included. This will help the students to have a better understanding of the electronic devices and circuits from application point of view. The mistake and misprints, which have crept

in, have been eliminated in this edition.

*A Textbook of Electrical Technology - Volume II* S. Chand Publishing

For Mechanical Engineering Students of Indian

Universities. It is also available in 4 Individual Parts  
*Electrical Technology* S.

Chand Publishing