

A Textbook Of Electrical Technology Engineering Books

Electrical Circuit Theory and Technology is a fully comprehensive text for courses in electrical and electronic principles, theory and electrical technology. The coverage takes students from the fundamentals of the subject, to the complex year degree level course. Thus, this book is ideal for students studying engineering for the first time, and is also suitable for degree vocational courses, especially where progression to higher levels of study is likely. John Bird's approach, based on worked examples supported by over 1000 problems (including answers), is ideal for students of a wide range of abilities to be worked through at the student's own pace. Theory is kept to a minimum, placing a firm emphasis on problem-solving and making this a thoroughly practical introduction to these core subjects in the electrical and electronic engineering. This revised edition includes new material on transients and Laplace transforms, with the content carefully matched to undergraduate modules. Free Tutor Support Material including full worked solutions to the assessment papers featured in the book will be available at <http://textbooks.elsevier.com/>. Material is only available to lecturers who have adopted the book as an essential purchase. In order to obtain your password to access the material please follow the guidelines in the book. The aim of this book is to introduce students to the basic electrical and electronic principles needed by technicians in areas such as electrical engineering, electronics and telecommunications. The emphasis is on the practical aspects of the subject. The author has followed his usual successful formula, incorporating many worked examples and problems (answers supplied) to aid the learning process. Electrical Principles and Technology for Engineering is John Bird's core text for Further Education courses at BTEC levels N11 and N111 and Advanced GNVQ. It is also designed to provide a comprehensive introduction for students on a variety of City & Guilds courses, and any students or technicians requiring a sound grounding in Electrical Principles and Technology.

A Textbook of Electrical Technology in S.I. System of Units (including Rationalized M.K:S.A. System)

A Textbook of Electrical Technology - Volume IV

A Textbook for the Following Examination

Lessons in Electric Circuits: An Encyclopedic Text & Reference Guide (6 Volumes Set)

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 of the book are 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.

This practical resource introduces electrical and electronic principles and technology covering theory through detailed examples, enabling students to develop a sound understanding of the knowledge required by technicians in fields such as electrical engineering, electronics and telecommunications. No previous background in engineering is assumed, making this an ideal text for vocational courses at Levels 2 and 3, foundation degrees and introductory courses for undergraduates.

Electrical Installations Technology

A Text Book of Electrical Technology Vol.II AC & DC Machines

A Textbook of Electrical Technology

A Textbook of Electrical Technology - Volume III

Electrical Circuit Theory and Technology

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 in compressing established facts to accommodate recent information in the syllabi. Fields of power-electronics and industrial power-conditioners have grown considerably resulting in a 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.

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.

Alternating and Direct Current Engineering

A Textbook

Electrical Power Systems Technology, Third Edition

Delmar's Standard Textbook of Electricity

A Text-book of Electrical Technology in S.I. System of Units

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.

Covering the gamut of technologies and systems used in the generation of electrical power, this reference provides an easy-to-understand overview of the production, distribution, control, conversion, and measurement of electrical power. The content is presented in an easy to understand style, so that readers can develop a basic comprehensive understanding of the many parts of complex electrical power systems. The authors describe a broad array of essential characteristics of electrical power systems from power production to its conversion to another form of energy. Each system is broken down into sub systems and equipment that are further explored in the chapters of each unit. Simple mathematical presentations are used with practical applications to provide an easier understanding of basic power system operation. Many illustrations are included to facilitate understanding. This new third edition has been edited throughout to assure its content and illustration clarity, and a new chapter covering control devices for power control has been added.

Fundamentals of Electrical Engineering I

AC & DC machines in S.I. system of units. Volume II

Modern Physics

(Incorporating Rationalized M.K.S.A. System)

Textbook of Electrical Technology

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.

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

Basic Electronics

A.C. & D.C. machines

Power Systems Harmonics

Basic Electrical Engineering

Solid State

Electrical Installations Technology covers the syllabus of the City and Guilds of London Institute course No. 51, the "Electricians B Certificate". This book is composed of 15 chapters that deal with basic electrical science and electrical installations. The introductory chapters discuss the fundamentals and basic electrical principles, including the concept of mechanics, heat, magnetic fields, electric currents, power, and energy. These chapters also explore the atomic theory of electric current and the electric circuit, conductors, and insulators. The subsequent chapter focuses on the chemistry of an electric cell, which is classified into two types, namely, the primary and secondary cells. This text also describes the principles, construction, types, and specifications of direct current machines. A chapter emphasizes the storage of energy for short periods in a capacitor, along with a brief discussion of its theory and construction. Other chapters are devoted to alternating-current systems. The remaining chapters cover the commonly used electrical measuring instruments in electrical installation work. This book is an invaluable source for electricians.

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.

Electrical Principles and Technology for Engineering

Introduction to Computation and Programming Using Python, second edition

A Textbook of Applied Electronics

Objective Electrical Technology

Fundamentals of Electrical Engineering and Electronics in International Systems (SI) of Units

Mastering the theory and application of electrical concepts is necessary for a successful career in the electrical installation or industrial maintenance fields, and this new fifth edition of DELMAR'S STANDARD TEXTBOOK OF ELECTRICITY delivers! Designed to train aspiring electricians, this text blends concepts relating to electrical theory and principles with practical 'how to' information that prepares students for situations commonly encountered on the job. Topics span all the major aspects of the electrical field including atomic structure and basic electricity, direct and alternating current, basic circuit theory, three-phase circuits, single phase, transformers, generators, and motors. This revision retains all the hallmarks of our market-leading prior editions and includes enhancements such as updates to the 2011 NEC, a CourseMate homework lab option, and a new chapter on industry orientation as well as tips on energy efficiency throughout the text.

Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

A Textbook of Electrical Technology - Volume I (Basic Electrical Engineering)S. Chand Publishing

The Commonwealth and International Library: Electrical Engineering Division

A Textbook of Electrical Technology - Volume II

In S.I. System of Units

AC and DC machines (power apparatus)

A Textbook of Electrical Technology - Volume I (Basic Electrical Engineering)

A Textbook on Electrical Technology

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

Occupational Outlook Handbook

Objective Electrical, Electronic and Telecommunication Engineering

Electrical and Electronic Principles and Technology

With Application to Understanding Data

Fundamentals, Analysis and Filter Design

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.

The new edition of an introductory text that teaches students the art of computational problem solving, covering topics ranging from simple algorithms to information visualization. This book introduces students with little or no prior programming experience to the art of computational problem solving using Python and various Python libraries, including PyLab. It provides students with skills that will enable them to make productive use of computational techniques, including some of the tools and techniques of data science for using computation to model and interpret data. The book is based on an MIT course (which became the most popular course offered through MIT's OpenCourseWare) and was developed for use not only in a conventional classroom but in a massive open online course (MOOC). This new edition has been updated for Python 3, reorganized to make it easier to use for courses that cover only a subset of the material, and offers additional material including five new chapters. Students are introduced to Python and the basics of programming in the context of such computational concepts and techniques as exhaustive enumeration, bisection search, and efficient approximation algorithms. Although it covers such traditional topics as computational complexity and simple algorithms, the book focuses on a wide range of topics not found in most introductory texts, including information visualization, simulations to model randomness, computational techniques to understand data, and statistical techniques that inform (and misinform) as well as two related but relatively advanced topics: optimization problems and dynamic programming. This edition offers expanded material on statistics and machine learning and new chapters on Frequentist and Bayesian statistics.

Electrical Technology

Hughes Electrical and Electronic Technology

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 mistakes and misprints, which have crept in, have been eliminated in this edition.

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 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.