
Basic Electrical Engineering By V K Mehta

BASIC ELECTRICAL ENGINEERING

Basic Electrical Engineering

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Electrical Engineering

Electrical Engineering 101

Basic Electrical Electronics Engineering

Basic Electrical Engineering

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

Principles of Electrical Machines

Basic Principles of Fresnel Antenna Arrays

Basic Electrical Engineering

Basic Electrical Engineering

Basic Electrical Engineering

Fundamentals of Electric Circuits

Introduction to Electrical Engineering
Basic Electrical Engineering
THEORY AND PROBLEMS OF BASIC ELECTRICAL ENGINEERING,, Second Edition
Basic Electrical Engineering (Be 104)
Comprehensive Basic Electrical Engineering
Basic Electrical Engineering
Fundamentals
Basic Electrical and Electronics Engineering
Fundamentals of Electrical Engineering
Everything You Should Have Learned in School...but Probably Didn't
Basic Electrical Engineering
Basic Elec Engg,2E
Basic Electrical and Electronics Engineering Precise
Basic Electrical Engineering - a Basic Knowledge of Electrical Engineering
Major Label Mastering
Basic Concepts of Electrical Engineering
Experiments In Basic Electrical Engineering
Electrical Engineering Fundamentals
Basic Electrical Engineering
Electrical and Electronic Principles

Basic Concepts of Electrical Engineering
Basic Electrical Engineering for Engineering
Electrical Engineering
Fundamentals of Electrical Engineering

*Basic Electrical
Engineering By V K
Mehta*

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KEAGAN TALIAH

BASIC ELECTRICAL ENGINEERING S.

Chand Publishing

Basic Elec Engg, 2E Tata McGraw-Hill
Education

Basic Electrical Engineering Tata
McGraw-Hill Education

Although, a number of books, written by various authors on the subject are available in the market. However, the author feels that this book will facilitate the students not only to prepare for the

regular University examinations. The book is also quite suitable for the professionals since many live examples have been incorporated. The book has the following exclusive features: (i) The Learning objectives of each chapter have been incorporated in the beginning to develop curiosity among the students. (ii) Practice exercise have been added in all the chapters after suitable intervals to impart necessary practice. (iii) At the end of each chapter, its summary highlights are given. This will enable the students to revise the subject matter quickly. (iv) A number of short answer

and test questions have been given at the end of each chapter. While answering these questions, the readers will have to think deep into the subject matter. This will improve their analytical approach. Consequently, the students/readers will be in position to respond in a better way while appearing before the selection board or to deal with practical problems. (v) A sufficient number of objective type questions (MCQ) have been given at the end of each chapter. These questions will help the students to perform better in the competitive examinations. (vi) The subject matter is treated in a simple and lucid manner so that an average student can understand the subject easily. Although, typical mathematical expressions are avoided but simple

mathematical relations are used for better explanation and understanding.

BASIC ELECTRICAL ENGINEERING

Prentice Hall

The book is written per the syllabus of first year engineering degree course for various universities. It covers basic topics of electrical engineering. It also includes worked out examples, University examination questions and answers, exercise, etc in every chapter. This book is suitable for course in basic electrical engineering under various Universities. Authors have tried to elucidate the topics in such a way that even a mediocre student can assimilate them. Many solved problems, sample question papers and exercise given in every section will provide a thorough understanding of the topics. Other

features include attractive writing style, well structured equations and numerical examples, pictures of high clarity, etc.

Basic Electrical Engineering Alpha

Science International Limited

Taking up where Volume 1 finishes, this book covers the BTEC module Electrical and Electronic Principles N (86/239) which form a foundation in electricity for so many National Certificate and Diploma engineering students. The aim of the book is to provide a complete set of course notes, freeing the student to spend time learning and doing.

Electrical Engineering New Age International

Electrical Engineering 101 covers the basic theory and practice of electronics, starting by answering the question "What is electricity?" It goes on to

explain the fundamental principles and components, relating them constantly to real-world examples. Sections on tools and troubleshooting give engineers deeper understanding and the know-how to create and maintain their own electronic design projects. Unlike other books that simply describe electronics and provide step-by-step build instructions, EE101 delves into how and why electricity and electronics work, giving the reader the tools to take their electronics education to the next level. It is written in a down-to-earth style and explains jargon, technical terms and schematics as they arise. The author builds a genuine understanding of the fundamentals and shows how they can be applied to a range of engineering problems. This third edition includes

more real-world examples and a glossary of formulae. It contains new coverage of: Microcontrollers FPGAs Classes of components Memory (RAM, ROM, etc.) Surface mount High speed design Board layout Advanced digital electronics (e.g. processors) Transistor circuits and circuit design Op-amp and logic circuits Use of test equipment Gives readers a simple explanation of complex concepts, in terms they can understand and relate to everyday life. Updated content throughout and new material on the latest technological advances. Provides readers with an invaluable set of tools and references that they can use in their everyday work.

Electrical Engineering 101 Firewall

Media

It Has Often Been Experienced That

Students Are Required To Perform Experiments On Certain Topic Before The Relevant Theory Has Been Taught In The Class. A Laboratory Manual Which, In Addition To A Set Of Instructions For Performing Experiments, Includes Related Theory In Brief Could Help Students Understand Experiments Better. In Response Of Demand From A Large Number Of States For An Appropriate Laboratory Manual In Basic Electricity And Electrical Measurements, The T.T.T.I., Chandigarh, Has Prepared This Manual Which Has Been Tried Out In Various Polytechnics And Improved Based On The Feedback. The Basic Objective Of The Manual Is To Encourage Students To Perform Experiments Independently And Purposefully. The Manual Organises The Information To

Enable The Students To Verify Known Concepts And Principles And To Follow Certain Procedures And Practices And Thereby Acquire Relevant Skills. Detailed Instructions For Carrying Out Each Experiment Alongwith Relevant Theory In Brief Have Been Given. The Objectives For Performing An Experiment Have Been Included At The Beginning Of Each Experiment. A List Of Questions Given At The End Of Each Experiment Will Help Students Evaluate His Own Understanding. The Manual Also Includes Guidelines For Students And Teachers For Its Effective Use. An Assessment Proforma Given At The Beginning Of The Manual May Be Used By The Teachers In Evaluating The Students.

Basic Electrical Electronics Engineering
Tata McGraw-Hill Education

An earnest attempt has been made in the book 'Basic Concepts of Electrical Engineering' to elucidate the principles and applications of Electrical Engineering and also its importance, so as to evince interest on the topics so that the student gets motivated to study the subject with interest.

Basic Electrical Engineering Basic Elec Engg, 2E

Basic Electrical Engineering is a core course for the first-year students of all engineering disciplines across the country. This course enables them to apply the basic concepts of Electrical engineering for multi-disciplinary tasks, and also lays the foundation for higher level courses in electrical and electronics engineering degrees. An established hallmark, this revised edition of the book

continues to dwell on all the key concepts and applications in the field and covers the subject in its entirety. Curated with great care, it provides an unmatched exposure to fundamentals of Electricity, Network theory, Electric machines, and Measuring instruments. Rich pool of problems and appendices enhance the utility of the book and make it a lasting resource for students as well as instructors.

Highlights:

1. Complete coverage of latest AICTE curriculum
2. New chapters on * Renewable Energy Sources * Semiconductor devices and their applications * DC-DC converters and Inverters * Digital Electronics and Communication Engineering
3. New appendices on * Electrical Safety * Applications of Electrical motors * Components of cells and battery *

Switch Mode Power Supply (SMPS) and Uninterruptible Power Supply (UPS)4. Supports outcome-based learning approach

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 thorough solved examples, avoiding the rigorous of mathematics. This book deals with the fundamentals of electrical engineering concepts like design & application of circuitry, equipment for power

generation & distribution and machine control. The increasing requirement for Junior Engineers/technicians in PSUs has created a large job opportunities for the diploma holders all over India. Every PSU conducts its own Qualifying exam Based on the vacancies available for various positions such as Junior Engineer and Technician. This series has been thoroughly updated to equip the diploma engineers appearing for the exams of BHEL, BEL, gail, IOCL, HPCL, ONGC, DMRC, DRDO, Railway, Staff Selection Commission and other diploma engineering competitive examinations. It aids in fast revision through key notes such as terms, definitions and formulae. The series also provides conceptual clarity to ease in attempting questions. A vast collection of questions has been

categorized under two levels-- questions for practice and Previous Years' questions of various PSU examinations to give you a feel of the actual exam. Features theory and key concepts in a systematically manner ample number of MCQs for practice in each br>Chapter previous years' questions to familiarize you with the pattern and level of the examination.

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

This book deals with the fundamentals of electrical engineering concepts like design & application of circuitry, equipment for power generation & distribution and machine control. Features Transformers discussed in detail. Thoroughly revised chapters on

Single and Three-Phases Induction Motors. New chapter on: 1. Three-Phase Alternator 2. Electromechanical Energy Conversion 3. Testing of DC Machines
Principles of Electrical Machines Oxford Series in Electrical and Computer Engineering

With practically-oriented coverage of all the basic concepts in electrical engineering, this text is a general introduction to the field. It integrates conceptual discussions with current, relevant technological applications, presenting modularized coverage of a wide range of topics. In addition, it aims to offer strong pedagogical support and clear explanations.

Basic Principles of Fresnel Antenna

Arrays I. K. International Pvt Ltd

This Book Presents A Practical-Oriented,

Sound, Modularized Coverage Of Fundamental Topics Of Basic Electrical Engineering, Network Analysis & Network Theorems, Electromagnetism & Magnetic Circuit, Alternating Current & Voltages, Electrical Measurement & Measuring Instrument And Electric Machines. Salient Features: # Clarification Of Basic Concepts # Several Solved Examples With Detailed Explanation # At The End Of Chapters, There Are Descriptive And Numerical Unsolved Problems # Written In Very Simple Language And Suitable For Self-Study # Step-By-Step Procedures Given For Solving Numerical
Basic Electrical Engineering Pearson Education India

The primary objective of vol. I of A Text Book of Electrical Technology is to

provided 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.

Basic Electrical Engineering John Wiley & Sons

A manual on the basic concepts of electrical engineering includes discussions of circuit elements, network theory, digital systems, and feedback control

Basic Electrical Engineering RAJATH PUBLISHERS

Antennas represent a critical technology in any of these wireless systems. Not only do they directly affect the received power of the system, they are also typically the largest and most visible part. Recently, the need for low-cost, low-profile, and lightweight antenna in the frequency range of the microwave/millimeter wave/THz band has gained momentum. "Basic Principles of Fresnel Antenna Arrays" provides us with the basics of the various Fresnel Antenna approaches, in

order to achieve low-cost, low-profile, and lightweight antenna in the microwave/millimeter wave band. A potential solution of the antenna problem lies in using lens technology in an array. The Fresnel zone plate lens (FZPL) antenna is in particular an interesting candidate for the array element. The limiting focusing properties of FZPL including subwave length focus are described in detail. The book further presents a novel hexagonal FZPL antenna which can be more effectively packed in an array due to its shape. Before considering the hexagonal FZPL antenna in an array, the authors investigate two ideas, described as methods to potentially improve the radiation characteristics. The first idea is to change the reference phase of the

Fresnel zone radii - a novel free parameter in the usual design of zone plate's lenses and antennas. To further improve the radiation characteristics of the hexagonal FZPL antenna, a technique involving Fresnel zone rotation is investigated. The book is of interest for designers of optical systems because, taking scaling effects into account, the characteristics of diffractive quasioptical elements are valid for diffractive focusing elements of integrated optics.

Fundamentals of Electric Circuits Koros Press

Rizzoni's Fundamentals of Electrical Engineering provides a solid overview of the electrical engineering discipline that is especially geared toward the many non-electrical engineering students who

take this course. The book was developed to fit the growing trend of the Intro to EE course morphing into a briefer, less comprehensive course. The hallmark feature of this text is its liberal use of practical applications to illustrate important principles. The applications come from every field of engineering and feature exciting technologies. The appeal to non-engineering students are the special features such as Focus on Measurement sections, Focus on Methodology sections, and Make the Connections sidebars.

Introduction to Electrical Engineering

KHANNA PUBLISHING HOUSE

Basic Electrical and Electronics Engineering provides an overview of the basics of electrical and electronic engineering that are required at the

undergraduate level. The book allows students outside electrical and electronics engineering to easily Basic Electrical Engineering Elsevier This comprehensive book with a blend of theory and solved problems on Basic Electrical Engineering has been updated and upgraded in the Second Edition as per the current needs to cater undergraduate students of all branches of engineering and to all those who are appearing in competitive examinations such as AMIE, GATE and graduate IETE. The text provides a lucid yet exhaustive exposition of the fundamental concepts, techniques and devices in basic electrical engineering through a series of carefully crafted solved examples, multiple choice (objective type) questions and review questions. The

book covers, in general, three major areas: electric circuit theory, electric machines, and measurement and instrumentation systems.

THEORY AND PROBLEMS OF BASIC ELECTRICAL ENGINEERING,, Second

Edition Walter de Gruyter GmbH & Co KG

For use in an introductory circuit analysis or circuit theory course, this text presents circuit analysis in a clear manner, with many practical applications. It demonstrates the principles, carefully explaining each step.

Basic Electrical Engineering (Be 104)

McGraw-Hill Higher Education

The aim of this book is to provide a consolidated text for the first year B.E. Computer Science and Engineering students and B.Tech Information

Technology students of Anna University. The syllabus has been thoroughly revised for the non-semester yearly pattern by the University. The book, made up of five chapters, systematically covers the five units of the syllabus. It begins with a detailed discussion on the fundamentals of electric circuits. DC circuits, AC circuits, 3-phase circuits, resonance and the network theorems. Lecture-type presentation of the rudiments of the fundamentals in conjunction with hundreds of solved examples is the strength of this book. Magnetic circuits and various magnetic elements and their properties, with number of illustrations are presented. DC machines and transformers are further dealt with. Equivalent circuits of machines supported with the respective

photographs will ease the reader to understand the concepts of machines much better. Synchronous machines and asynchronous machines and fundamentals of control systems with various practical examples and relevant worked illustrations conclude this book. A large number of numerical illustrations and diagrammatic representations make this book valuable for students and teachers.

Comprehensive Basic Electrical

Engineering McGraw-Hill Education

This book is designed to meet the basic requirements of Electrical Engineering covering DC Circuits / Electromagnetism / Single-phase and Three-phase AC Circuits / Electrical Measuring Instruments / Domestic Wiring / DC Machines / AC Machines-Transformers, Synchronous Generators and Three-phase Induction Motors.