

Electrical Engineering Study Material

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Basic Electrical Engineering New Age International

This book provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level. Efforts have been taken to keep the complexity level of the subject to bare minimum so that the students of non electrical/electronics can easily understand the basics. It offers an unparalleled exposure to the entire gamut of topics such as Electricity Fundamentals, Network Theory, Electro-magnetism, Electrical Machines, Transformers, Measuring Instruments, Power Systems, Semiconductor Devices, Digital Electronics and Integrated Circuits.

Electrical Engineering Exam Prep CRC Press

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.

Fundamentals of Electrical Engineering and Electronics (LPSPE)
Createspace Independent Publishing Platform

The book has been written in a lucid and systematic manner with necessary mathematical derivations, illustrations, examples and practise exercises providing detailed description of the materials used in electrical and electronics engineering and their applications. Beginning with the atomic structure of the materials, the book deals with the behaviour of dielectrics and their properties under the influence of DC and AC fields. It covers the magnetic properties of materials including soft and hard magnetic materials and their applications. The text discusses fabrication techniques and the basic physics involved in the operation of the semiconductors, junction transistors and rectifiers. It includes detailed description of optical properties of the materials (optical materials), photovoltaic materials and the materials used in lasers and optical fibres. It also incorporates the latest information on the materials used for the direct energy conversion and fuel cell technologies. This book is primarily intended for undergraduate students of electrical engineering and electrical and electronics engineering. Key features

- Contains sufficient numbers of solved numerical examples.
- Includes a set of review questions and a list of references at the end of each chapter.
- Provides a set of numerical problems in some of the chapters, wherever required.
- Contains more than 150 diagrammatic illustrations for easy understanding of the concepts.

Electrical Engineering (as Per Uptu Syllabus) Springer Science & Business Media

This streamlined review gets you solving problems quickly to measure your readiness for the PE exam. The text provides detailed solutions to problems with pointers to references for further study if needed, as well as brief coverage of the concepts and applications covered on the exam. For busy professionals, Electrical Engineering: A Referenced Review is an ideal concise review. Book jacket. PPI FE Electrical and Computer Review Manual – Comprehensive FE Book for the FE Electrical and Computer Exam S. Chand Publishing

Complete coverage of all fields of electrical engineering. The book provides workable definitions for practicing engineers, while serving as a reference and research tool for students, and offering practical information for scientists and engineers in other disciplines. Areas examined include applied electrical, microwave, control, power, and digital systems engineering, plus device electronics.

Basic Electrical and Electronics Engineering McGraw-Hill Education

A Textbook for the students of B.Sc.(Engg.), B.E., B.Tech., AMIE and Diploma Courses. A new chapter on "Semiconductor Fabrication Technology and Miscellaneous Semiconductor Devices" had been included and additional self-assessment questions with answers and additional worked examples had been provided at the end of the BOOK.

Electrical Engineering Professional Publications Incorporated

Students will quickly understand the popularity of this helpful sourcebook--the first edition sold 46,000 copies! The chief emphasis is on solving realistic problems, hundreds of which are included with detailed solutions. This popular study guide concisely yet clearly covers all the areas taught in two-semester survey courses and serves as an ideal review for electrical engineers and others looking for high ratings on the Professional Engineer's Examination.

A Course in Electrical Engineering: Direct currents TAB/Electronics

This book is designed based on revised syllabus of Gujarat Technological University, Gujarat (AICTE model curriculum) for under-graduate (B.Tech/BE) students of all branches, those who study Basic Electrical Engineering as one of the subject in their curriculum. The primary goal of this book is to establish a firm understanding of the basic laws of Electric Circuits, Network Theorems, Resonance, Three-phase circuits, Transformers, Electrical Machines and Electrical Installation.

INTRODUCTION TO ELECTRICAL ENGINEERING. PPI, a Kaplan Company

Excerpt from Heavy Electrical Engineering Many text books have been published under the general title of "Electrical Engineering." An examination of these books reveals on the part of their authors a conception of the preferential scope of the subject which is at complete variance

with my conception. Hence, beyond the similarity of title, there is nothing in common between the present treatise and these others. I have omitted routine descriptive material as well as the elementary generalities regarding electricity and magnetism, and I have directed my efforts to an attempt to familiarize the reader with various considerations and calculations of which a sound, knowledge should be acquired in order to enable him effectively to engage in practical electrical engineering work. Regrettable as it appears, it is nevertheless a fact that the real progress in electrical engineering is being made by too small a majority of those engaged in the electrical engineering profession. Many have not the remotest approach to broad knowledge of the subject; often they have not the energy or the enterprise to exercise their own reasoning faculties. Such are hardly more than figure-heads desirous on the one hand of being on the side of the most fashionable engineering fad, so soon as there is no longer any doubt of its being fashionable, and on the other hand hesitating to depart from the cut-and-dried practice of years standing, which makes the preparation of plans a mere matter of copying, and eliminates all risk and uncertainty. Swayed by these opposing tendencies, they soon become incapable of seeing any engineering question in its true aspects. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

The Electrical Engineer's Guide to passing the Power PE Exam PHI Learning Pvt. Ltd.

The Assistant Electrical Engineer Passbook(R) prepares you for your test by allowing you to take practice exams in the subjects you need to study. It provides hundreds of questions and answers in the areas that will likely be covered on your upcoming exam.

Introduction to Electrical Engineering S. Chand Publishing

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

Teach Yourself Electricity and Electronics S. Chand Publishing

The General Response to the first edition of the book was very encouraging. The authors feel that their work has been amply rewarded and wish to express their deep sense of gratitude, in common to the large number of readers who have used it, and in particular to those whom they have sent helpful suggestions from time to time for the improvement of the book. To enhance the utility of the book, it has been decided to bring out the multicolor edition of the book. There are three salient features of the multicolor edition.

Electrical Engineering Materials Hardpress Publishing

The Primary Goal of this hand book is to provide in a simple and way, a concise and coherent presentation of the core material, namely, the key terminology, fundamental concepts, principles, laws, facts, figures, formulae, mathematical methods and applications of electrical and electronics engineering. A necessary corollary objective of this handbook is to prepare the reader for specialist literature. The material presented in this handbook is intended to serve as a platform from where the reader can launch to an exploration of specialised field of interest.

Concise Handbook of Electronics and Electrical Engineering Passing the Power PE Exam

Electrical units - Measuring devices - Direct-current circuit - Resistors - Cells and batteries - Magnetism - Inductance - Capacitance - Phase - Transformers - Semiconductors - Diodes - Amplifiers - Oscillators - Data transmission.

Engineering Circuit Analysis S. Chand Publishing

This study guide is centered on the idea of 'problem based learning'. It contains over 400 focused problems with detailed solutions based on the latest NCEES® FE Computer Based Testing specification for Electrical and Computer exam.

Basic Electrical Engineering McGraw-Hill Science, Engineering & Mathematics

This book provides over 2,500 questions and answers for various types of electrical engineering exams or as a general review of key concepts. It covers all of the aspects of electrical engineering topics including electrical circuits, electromagnetic theory, measurements, control systems, computers, electronics, material science, machines, power systems, blockchain, and more. FEATURES Uses multiple choice questions and their answers in a "self-study format" to review key concepts in electrical engineering and related topics Provides over 2500 questions for reviewing a variety of topics including circuits, measurement, information and blockchain technology, power systems, electronics, and more

Electrical Engineering (For 1st Year of UPTU & UTU) S. Chand Publishing

The Beginner's Guide to Engineering series is designed to provide a very simple, non-technical introduction to the fields of engineering for people with no experience in the fields. Each book in the series focuses on introducing the reader to the various concepts in the fields of engineering conceptually rather than mathematically. These books are a great resource for high school students that are considering majoring in one of the engineering fields, or for anyone else that is curious about engineering but has no background in the field. Books in the series: 1. The Beginner's Guide to Engineering: Chemical Engineering 2. The Beginner's Guide to Engineering: Computer Engineering 3. The Beginner's Guide to Engineering: Electrical Engineering 4. The Beginner's Guide to Engineering: Mechanical Engineering
An Introduction to Electrical Engineering Materials Career Examination

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.

Basic Electrical and Electronics Engineering S. Chand Publishing

CD-ROMs contains: 2 CDs, "one contains the Student Edition of LabView 7 Express, and the other contains OrCAD Lite 9.2."

Electrical Engineering Materials Mercury Learning and Information

Unlike some other reproductions of classic texts (1) We have not used OCR(Optical Character Recognition), as this leads to bad quality books with introduced typos. (2) In books where there are images such as portraits, maps, sketches etc We have endeavoured to keep the quality of these images, so they represent accurately the original artefact. Although occasionally there may be certain imperfections with these old texts, we feel they deserve to be made available for future generations to enjoy.