

# Electrical Engineering Books

Excerpt from The Elements of Electrical Engineering, Vol. 1: A Text Book for Technical Schools and Colleges This treatise on the elements of electrical engineering represents the combined experience of the authors in teaching the subject for thirteen years. The aim has been to give a clear and concise treatment of the elements of the subject illustrated by numerous practical examples and problems. In almost every branch of engineering a simple working knowledge of the electrical problems involved in the generation, distribution, and utilization of power is becoming imperative. Students pursuing a course in engineering, other than electrical, are limited as to the time to be devoted to electrotechnology, while students taking a course in electrical engineering are not so restricted. The problem which the authors undertook to solve in the preparation of this treatise was to so select and arrange the subject matter that the book might be advantageously used as an introductory course, not only for electrical engineering students, but also for students specializing in other branches of engineering. This somewhat difficult problem has been solved by treating the more essential parts of the subject consecutively in a series of chapters, and by placing the more elaborate developments in in a series of appendices. This arrangement makes it possible for a student to easily cover the fundamental portions of the text in one semester, by omitting the more highly specialized matter that is given partly in fine print

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and partly in Appendices A, B and C. An important feature of the book is an extended list of carefully chosen problems given as a final appendix. These problems are arranged in an order following closely the development of the subject matter of the text. They have been designed not merely to illustrate principles, but to supplement the information given in the text. The answers to these problems have been checked with extreme care. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://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.

This is a comprehensive Practice Book for aspirants of Electrical Engineering those are preparing for RSEB (Rajasthan State Electricity Board) AEn & JEn vacancies. It contains a huge collection of quality questions covering all technical syllabus at minute level. The major subjects, like Electric Circuit, Machines and Power System have individually collection of more than 600 questions in each. Apart this, Book also covers subjects, like Measurement, Digital Electronics, Control System, Basic Electronics, Electro Magnetic Theory, etc. All subjects are classified in sub-topics so that students

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may analyse their preparations comparatively and may know about their weak topic. Due to contribution of various qualified faculties, this Book shall be an ideal Book for RSEB aspirants of Electrical Engineering.

This book is designed based on revised syllabus of JNTU, Hyderabad (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.

A unique compendium of over 2000 multiple choice questions for students of electronics and electrical engineering. This book is designed for the following City and Guilds courses: 2010, 2240, 2320, 2360. It can also be used as a resource for practice questions for any vocational course.

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

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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.

This book has been prepared by a group of faculties who are highly experienced in training GATE candidates and are also subject matter experts. As a result this book would serve as a one-stop solution for any GATE aspirant to crack the examination. The bo

Excerpt from Electrical Engineering: Advanced Course This volume contains abstracts of a series of lectures given to graduate students in electrical engineering at Union College. It is primarily intended to prepare the student to

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understand and to deal mathematically with phenomena which are incidental to abnormal or transient conditions in electric circuits. The first part is practically a reprint of a series of articles published by the author some years ago in the General Electric Review. These cover the simple transients in circuits containing concentrated inductance, capacity, and resistance, which have been treated by many authors, notably by Bedell And Crehore in their "Alternating Currents," published 1893. The second part deals with the somewhat more difficult problems of transients in circuits of distributed inductance, capacity and resistance. These were treated mathematically very fully almost thirty years ago by Heaviside in a series of papers on "Electromagnetic Theory," later published in book form. In 1909 Steinmetz's "Transient Phenomena" appeared. This book covered in a broad sense very much the same ground as that of the authors given above, but covered it in an essentially different way; introducing for the first time - as far as the author knows - a really advanced book on practical electrical engineering problems. The third part of the book deals with problems in electrostatics. These again have been very fully treated almost fifty years ago by Maxwell in his famous books on Electricity and Magnetism. Since that time a large number of papers and books have appeared on the subject, notably by Heaviside, Kelvin, Gray, Jeans and Webster, and quite recently by Coffin in his

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interesting little book on "Vector Analysis." While the literature on this phase of engineering is thus very extensive, it has, for all purposes, been closed to the practical engineer because of his lack of sufficient mathematical knowledge. Dr. W.S. Franklin has, however, recently published a number of papers, which in a beautifully simple way have demonstrated that these advanced problems can be solved with simple mathematics. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at [www.forgottenbooks.com](http://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.

Introduction to Electrical Engineering presents a comprehensive coverage of a broad range of key topics including principles and techniques, industrial applications, transformers and AC/DC machine operation. The book has an excellent blend of theory and solved examples. Following a simple and engaging style, this book can be considered as a single source information meeting the

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requirements of the readers. It is intended for catering the needs of engineering students of all branches and eminently suited as a textbook for the students of B.E./B.Tech, AMIE and diploma courses in electrical engineering. Besides this, the book would also be appreciated by all those students who are preparing for GATE and UPSC competitive examinations as well as by the practising engineers. Key Features • Exclusive coverage of the syllabus prescribed for the undergraduate students of engineering. • In-depth presentation of all key topics. • Sufficient worked-out examples to support and reinforce concepts. •

Pedagogical features such as chapterwise key points to recall concepts and exercises as well as numerical problems with answers for practice.

This Book Is Written For Use As A Textbook For The Engineering Students Of All Disciplines At The First Year Level Of The B.Tech. Programme. The Text Material Will Also Be Useful For Electrical Engineering Students At Their Second Year And Third Year Levels. It Contains Four Parts, Namely, Electrical Circuit Theory, Electromagnetism And Electrical Machines, Electrical Measuring Instruments, And Lastly The Introduction To Power Systems. This Book Also Contains A Good Number Of Solved And Unsolved Numerical Problems. At The End Of Each Chapter References Are Included For Those Interested In Pursuing A Detailed Study.

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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

????????????Basic Electrical EngineeringS. Chand Publishing

Annotation Companion book to Electrical Engineering License Review. Here the end-of-chapter problems have been repeated and detailed Step-by-Step solutions are provided. Also included is a sample exam (same as 35X below), with detailed step-by-step solutions. 100% Problems and Solutions.

This book constitutes the proceedings of the XV Multidisciplinary International Congress on Science and Technology (CIT 2020), held in Quito, Ecuador, on



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26–30 October 2020, proudly organized by Universidad de las Fuerzas Armadas ESPE in collaboration with GDEON. CIT is an international event with a multidisciplinary approach that promotes the dissemination of advances in Science and Technology research through the presentation of keynote conferences. In CIT, theoretical, technical, or application works that are research products are presented to discuss and debate ideas, experiences, and challenges. Presenting high-quality, peer-reviewed papers, the book discusses the following topics: • Electrical and Electronic • Energy and Mechanics

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 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 the 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.

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This book is written as a very concise introduction for students taking a first course in communication systems. It provides the reader with fundamentals of digital communication systems and disseminates the essentials needed for the understanding of wire and wireless communication systems for Electrical

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Engineers. It covers important topics right from the beginning of the subject which communication engineers must understand. Example problems in each chapter will help them in understanding the materials well. The study of data networking will include multiple access, reliable packet transmission, routing and protocols of the internet. The concepts taught in class will be discussed in the context of aerospace communication systems: aircraft communications, satellite communications. The book includes example problems in each chapter to help the reader in understanding the materials well.

The field of engineering today is largely inter-disciplinary and requires an acute appreciation of the fundamental principles of electrical and electronics engineering. The book Basic Electrical and Electronics Engineering is an offering for the first time learner, newly initiated into engineering, of the world of electrical and electronics engineering. Those who decide to pursue this subject further will find in this book a wealth of initial information about the courses to come. For the engineers who wish to pursue different branches of engineering this book would serve as a lifetime guide to understand areas of electrical and electronics engineering that will come within their purview during their career in engineering. Designed For Entry-Level Engineering Students, This Book Presents A Thorough Exposition Of Electrical, Electronics, Computer And Communication Engineering.

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Simple Language Has Been Used Throughout The Book And The Fundamental Concepts Have Been Systematically Highlighted \* This Edition Includes New Chapters On \* Transmission And Distribution \* Communication Services \* Linear And Digital Integrated Circuits \* Sequential Logic System \* The Book Also Includes \* Large Number Of Diagrams For A Clear Understanding Of The Subject \* Cumerous Solved Examples Illustrating Basic Concepts And Techniques \* Exercises And Review Questions With Answers \* Revision Formulae For Quick Review And Recall All These Features Make This Book An Ideal Text For Both Degree And Diploma Students Engineering.  
Batcheller Collection.

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.

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