

Fundamentals Of Electrical Engineering Electronics By J B Gupta

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Fundamentals of Electrical Engineering | Prentice Hall
Divided into four parts: circuits, electronics, digital systems, and electromagnetics, this text provides an understanding of the fundamental principles on which modern electrical engineering is based. It is suitable for a variety of electrical engineering courses, and can also be used as a text for an introduction to electrical engineering.

Fundamentals of Electrical Engineering and Electronics Laxmi Publications
A third edition of this popular text which provides a foundation in electronic and electrical engineering for HND and undergraduate students. The book offers exceptional breadth of coverage without sacrificing depth. It uses a wealth of practical examples to illustrate the theory, and makes no excessive demands on the reader's mathematical skills. Ideal as a teaching tool or for self-study.

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This Book extensive pruning of the solved Examples in the text.Majority of the old examples have been replaced by questions set in the latest examination papers of different engineering colleges and technical institutions.

Basic Electrical and Electronics Engineering Oxford Series in Electrical and Computer Engineering
This book has been revised thoroughly. A large number of practical problems have been added to make the book more useful to the students. Also included, multiple-choice questions at the end of each chapter.

Electrical and Electronics Fundamentals S. Chand Publishing
Real-world engineering problems are rarely, if ever, neatly divided into mechanical, electrical, chemical, civil, and other categories. Engineers from all disciplines eventually encounter computer and electronic controls and instrumentation, which require at least a basic knowledge of electrical and other engineering specialties, as well as associa
Fundamentals of Electrical Engineering and Electronics in International Systems (SI) of Units PHI Learning Pvt. Ltd.

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 Circuit Analysis CRC Press
Electric power engineering has always been an integral part of electrical engineering education. Providing a unique alternative to existing books on the market, this text presents a concise and rigorous exposition of the main fundamentals of electric power engineering. Contained in a single volume, the materials can be used to teach three separate courses — electrical machines, power systems and power electronics, which are in the mainstream of the electrical engineering curriculum of most universities worldwide. The book also highlights an in-depth review of electric and magnetic circuit theory with emphasis on the topics which are most relevant to electric power engineering. Contents:Review of Electric and Magnetic Circuit Theory:Basic Electric Circuit TheoryAnalysis of Electric Circuits with Periodic Non-sinusoidal SourcesMagnetic Circuit TheoryPower Systems:Introduction to Power SystemsFault AnalysisTransformersSynchronous GeneratorsPower Flow Analysis and Stability of Power SystemsInduction MachinesPower Electronics:Power Semiconductor DevicesRectifiersInvertersDC-to-DC Converters (Choppers) Keywords:Power Systems;Electrical Machines;Power Electronics

Fundamentals Of Electrical And Electronics Engineering PHI Learning Pvt. Ltd.
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.

Fundamentals of Electronics: Book 1 Walter de Gruyter GmbH & Co KG
The text focuses on the creation, manipulation, transmission, and reception of information by electronic means. Contents: 1) Introduction. 2) Signals and Systems. 3) Analog Signal Processing. 4) Frequency Domain. 5) Digital Signal Processing. 6)

Information Communication. 7) Appendices: Decibels; Permutations and Combinations, Frequency Allocations.
Electrical Engineering Bloomsbury Publishing
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.

Fundamentals of Electric Power Engineering West Publishing Company
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 Fundamentals S. Chand Publishing
Fundamental Electrical and Electronic Principles covers the essential principles that form the foundations for electrical and electronic engineering courses, and provides the underpinning knowledge needed by a wide range of technician engineers. The text uses analogies to help students build their understanding of key topics, and encourages a methodical and logical approach to problem solving and written work. No prior knowledge of the subject is assumed. Clear explanations are supported throughout with worked examples and assignments (answers provided). New sections of Supplementary Worked Examples have been added in response to feedback from colleges. This book is an ideal text for a wide range of Further Education courses including City & Guilds certificates and NVQs (levels 2 and 3). The second edition has been matched to the latest specifications for BTEC National (2001/2 draft specifications), and Advanced VCE (GNVQ) Engineering (Curriculum 2000) and includes two brand new chapters on Semiconductor Theory and Devices and Semiconductor Circuits. It is also suitable for Intermediate GNVQ. First edition published by Arnold as **Electrical and Electronic Principles, volume 1.**

Fundamentals of Electrical Engineering S. Chand Publishing
The Industrial Electronics Handbook, Second Edition combines traditional and newer, more specialized knowledge that will help industrial electronics engineers develop practical solutions for the design and implementation of high-power applications. Embracing the broad technological scope of the field, this collection explores fundamental areas, including analog and digital circuits, electronics, electromagnetic machines, signal processing, and industrial control and communications systems. It also facilitates the use of intelligent systems—such as neural networks, fuzzy systems, and evolutionary methods—in terms of a hierarchical structure that makes factory control and supervision more efficient by addressing the needs of all production components. Enhancing its value, this fully updated collection presents research and global trends as published in the IEEE Transactions on Industrial Electronics Journal, one of the largest and most respected publications in the field. Fundamentals of Industrial Electronics covers the essential areas that form the basis for the field. This volume presents the basic knowledge that can be applied to the other sections of the handbook. Topics covered include: Circuits and signals Devices Digital circuits Digital and analog signal processing Electromagnetics Other volumes in the set: Power Electronics and Motor Drives Control and Mechatronics Industrial Communication Systems Intelligent Systems
Fundamentals of Electrical Engineering Orange Grove Texts Plus

‘ **BASICS OF ELECTRICAL ENGINEERING AND ELECTRONIC COMPONENTS** ’ is intended to be used as a text book for I Semester Diploma in Electronics and Communication Engineering. This book is designed for comprehensively covering all topics relevant to the subject. Each and every topic has been explained in a very simple language as per the syllabus prescribed by the Board of Technical Education, Karnataka. This book is divided into eight chapters: Chapter 1 – Basics of Electricity Chapter 2 – Electrostatics Chapter 3 – Electromagnetic Induction Chapter 4 – AC Fundamentals Chapter 5 – AC Circuits Chapter 6 – Transformers Chapter 7 – Batteries, Relays and Motors Chapter 8 – Passive Components The text provides detailed explanations and uses numerous easy-to-follow examples accompanied by diagrams and step-by-step solutions. Illustrative problems are presented in terms of commonly used voltages and current ratings. To enhance the utility of the book, important points and review questions (objective and descriptive type) have been included at the end of each chapter. Model question papers have been provided to help students prepare better for the semester examinations. Multiple choice questions along with answers have been given towards the end of the book for the benefit of students taking up competitive tests. It is hoped that this book will be of immense use to teachers and students of Polytechnics. Suggestions for improvement in the future editions of this book will be appreciated. I wish to express my gratitude to MEI Polytechnic, Bangalore for providing me an opportunity to bring out this text book. I am grateful to Sri. Nitin S. Shah, M/s Sapna Book

House, Bangalore for publishing this book. I am thankful to M/s Datalink, Bangalore for meticulous processing of the manuscript of this book.

FUNDAMENTALS OF ELECTRICAL AND ELECTRONICS ENGINEERING S. Chand Publishing

This work is a study of the essential principles that form the foundations for electrical and electronic engineering courses, providing the underpinning knowledge needed by a wide range of technician engineers.

Basic Electrical and Electronics Engineering Sapna Book House (P) Ltd.

This book is designed to help readers obtain a thorough understanding of the basic principles of electric circuits. It provides a practical coverage of electric circuits (DC/AC) and an introduction to electronic devices that technician-level readers can readily understand. Well-illustrated and clearly written, the book contains a full-color layout that enhances visual interest and ease of use. This acclaimed book covers all the basics of DC and AC circuits. Safety tips, key terms, and a comprehensive set of appendices are included. An important reference tool for service shop technicians, industrial manufacturing technicians, laboratory technicians, field service technicians, engineering assistants and associate engineers, technical writers, and those in technical sales.

Fundamental Electrical and Electronic Principles Prentice Hall

This second edition, extensively revised and updated, continues to offer sound, practically-oriented, modularized coverage of the full spectrum of fundamental topics in each of the several major areas of electrical and electronics engineering. Circuit Theory Electrical Measurements and Measuring Instruments Electric Machines Electric Power Systems Control Systems Signals and Systems Analog and Digital Electronicsincluding introduction to microcomputers The book conforms to the syllabi of Basic Electrical and Electronic Sciences prescribed for the first-year engineering students. It is also an ideal text for students pursuing diploma programmes in Electrical Engineering. Written in a straightforward style with a strong emphasis on primary principles, the main objective of the book is to bring an understanding of the subject within the reach of all engineering students. What is New to This Edition : Fundamentals of Control Systems (Chapter 24) Fundamentals of Signals and Systems (Chapter 25) Introduction to Microcomputers (Chapter 32) Substantial revisions to chapters on Transformer, Semiconductor Diodes and Transistors, and Field Effect Transistors Laplace Transform (Appendix B) Applications of Laplace Transform (Appendix C) PSpice (Appendix E) key Features : Numerous solved examples for sound conceptual understanding End-of-chapter review questions and numerical problems for rigorous practice by students Answers to all end-of-chapter numerical problems An objective type Questions Bank with answers to hone the technical skills of students for viva voce and preparation for competitive examinations.

Fundamental Electrical and Electronic Principles Oxford University Press, USA

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 usedit,and in particular to those them who 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 book.There are three salient features multicolor edition.

Electrical Engineering Fundamentals Walter de Gruyter GmbH & Co KG

For the first course in electrical engineering, this text is more than just a survey of the basics of electrical engineering. Even at this introductory level, Bobrow covers most of the material in sufficient detail for students to gain a good understanding of the fundamental principles on which modern electrical engineering is based. The text is partitioned into four parts: circuits, electronics, digital systems, and electromechanics. The circuits portion includes the traditional circuits topics, such as Ohm's law, Kirchhoff's laws, resistive analysis techniques, various circuit theorems and principles, time-domain and frequency-domain analysis procedures, power, three-phase circuits, resonance, frequency response, and elementary system concepts. The electronics portion deals with both theory and applications of the major semiconductor devices: diodes and transistors in both discrete and integrated-circuit (IC) form. In the digital systems portion, basic digital logic elements and logic design in both discrete and IC forms are covered. Sequential, as well as combinational logic, is covered. The electromechanics portion covers topics such as magnetic circuits, magnetic induction, and transformers on an elementary level. Each chapter ends with a problem set, with selected answers available at the back of the book.

BASICS OF ELECTRICAL ENGINEERING AND ELECTRONIC COMPONENTS New Age International

An overview of the electrical and electronics field covering basic concepts and current relevant topics whilst exploring common areas of application.