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# Basic Electronic Engineering By BI Theraja

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Objective Electrical, Electronic and Telecommunication Engineering  
Basic Electronics Engineering  
Basic Electronics Engineering  
Basic Electrical & Electronics Engineering  
Basic Electrical and Electronics Engineering  
Principles of Electronic Devices & Circuits  
Modern Physics  
Basic Electronics Engineering & Devices  
BASIC ELECTRONICS  
Basic Electronics (Includes Solved Problems and MCQs)  
Basic Electrical and Electronics Engineering:  
Fundamentals of Electrical Engineering and Electronics (LPSPE)  
Basic Electronics - Second Edition  
A Textbook of Electrical Technology - Volume IV  
Fundamentals of Electrical Engineering and Electronics  
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BASIC ELECTRONIC DEVICES AND CIRCUITS  
Basic Electronics  
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Fundamentals of Electrical Engineering and Electronics  
Fundamentals of Electrical Engineering and Electronics  
A Textbook of Electrical Technology  
Electronics Engineering  
Fundamentals of Electrical Engineering and Electronics in International Systems (SI) of Units  
A Textbook of Electrical Technology - Volume III  
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A Textbook of Electrical Technology - Volume II  
BASIC ELECTRONICS FOR NON ELECTRICAL ENGINEERS (with MATLAB and Simulink Exercises)

Basic Electronics  
Electrical and Electronic Principles and Technology

*Basic Electronic Engineering By BI Theraja*

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## BAKER BRADSHAW

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**Objective Electrical, Electronic and Telecommunication Engineering** S. Chand Publishing  
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 up to 1994 in different engineering colleges and technical institutions in India and abroad.

*Basic Electronics Engineering* S. Chand Publishing

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

Basic Electronics Engineering Laxmi Publications

This clear, well-illustrated introduction to electronic equipment covers the safe use of electronic devices and basic test equipment, plus numerous essential topics: electron tubes, semiconductors, electronic power supplies, tuned circuits, an introduction to amplifiers, receivers, ranging and navigation systems, an introduction to computers, antennas, AM/FM, and much more. 560 illustrations.

**Basic Electrical & Electronics Engineering** I. K. International Pvt Ltd

For close to 20 years, Basic Electronics: Devices and Circuits has provided fundamental knowledge of the subject to all students. Each chapter focuses on the core concepts and clearly elucidate the fundamental principles, methods and circuits involved in electronics.

*Basic Electrical and Electronics Engineering* Pearson Education India

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.

Principles of Electronic Devices & Circuits S. Chand Publishing

□ 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.

*Modern Physics* Independently Published

This course is the basic foundation course to understand the principles of Electronic Devices and Basic Circuits. Though number of books are published in this area, there is need for a book which explains clearly the principles and is helpful to students as well as teachers. Though many students of electronic engineering go through this course, still many students somehow fail to appreciate the essence of the subject. The book is written in a simple lucid language along with derivation of equations and supported by numerous solved problems. Salient Features - Specifications of different devices, colour codes, typical values of resistor and capacitors, circuit symbols, unit conversion factors are provided - Objective Type Questions and Conceptual Questions with Answers are provided at the end of each chapter

*Basic Electronics Engineering & Devices* Springer Nature

In recent years Basic Electronics Engineering are being used extensively in computers, microprocessor and very large scale integration (VLSI) design and digital signal processing research and many other things. This rapid progress in Electronics Engineering has created an increasing demand for trained Electronics Engineering personnel. This book is intended for the undergraduate and postgraduate students specializing in Electronics Engineering. It will also serve as reference material for engineers employed in industry. The fundamental concepts and principles behind electronics engineering are explained in a simple, easy-to-understand manner. Each chapter contains a large number of solved example or problem which will help the students in problem solving and designing of Electronics system. This text book is organized into thirteen chapters. Chapter 0: Famous Scientists and Inventors Who Shaped Electronics Engineering Chapter 1: Introduction to Electronics, Current and Voltage Sources and Semiconductor Physics Chapter 2: Semiconductor Diode and its Applications Chapter 3: Bipolar Junction Transistor (BJT), Transistor Biasing and Stabilization of Operating Point Chapter 4: Applications of BJTs Chapter 5: Field Effect Transistor (FET) & Special Diodes and Its Applications Chapter 6: Electronics Oscillators & Basics of SCR & UJT Chapter 7: Number Systems and Boolean Algebra Chapter 8: Combinational Circuits Chapter 9: Sequential Circuits Chapter 10: Digital Logic Families Chapter 11: Electronics Instruments & Measurements Chapter 12: Basics & Applications of Communication System Chapter 13: Basics & Applications of Operational Amplifier The book Electronics Engineering is written to cater to the needs of the undergraduate courses in the discipline of Electronics & Communication Engineering, Computer Science Engineering, Information Technology, Electronics & Instrumentation Engineering, Electrical & Electronics Engineering and postgraduate students specializing in Electronics. It will also serve as reference material for engineers employed in industry. The fundamental concepts and principles behind digital logic designs are explained in a simple, easy-to-

understand manner. The last Chapter gives the possible experiments of digital logic design that can be done by students of B.E./B.Tech level. Salient Features\*Detailed coverage of Electronics system, Instrumentations, Communication, sequential logic circuits, combinational logic circuits, Operational Amplifier & Applications of BJT and Diode.\*Comprehensive chapter on digital logic families, Electronics Measurement, Feedback and Oscillators.\*Each chapter contains a large number of solved example or objective type's problem which will help the students in problem solving and designing of digital system. \*Clear perception of the various problems with a large number of neat, well drawn and illustrative diagrams. \*Simple Language, easy- to- understand manner. I do hope that the text book in the present form will meet the requirement of the students doing graduation in Electronics & Communication Engineering, Computer Science Engineering, Information Technology, Electronics & Instrumentation Engineering and Electrical & Electronics Engineering. I shall appreciate any suggestions from students and faculty members alike so that we can strive to make the text book more useful in the edition to come.

#### **BASIC ELECTRONICS** S. Chand Publishing

The present book is meant for the first-year engineering curricula of various universities in India. It describes the basic theories of electron dynamics, semiconductor physics, semiconductor diodes, bipolar junction transistors, field-effect (junction, MOS and CMOS) transistors, voltage and power amplifiers, oscillators, power electronic devices (SCR and UJT), and operational amplifiers. It further describes radio, mobile, fiber-optic, satellite and microwave communication systems. It also deals with the basic theories of radar, electronic instrumentation, Boolean algebra and logic functions. The book has more than 250 diagrams to illustrate the theories described and numerous worked examples.

*Basic Electronics (Includes Solved Problems and MCQs)* PHI Learning Pvt. Ltd.

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.

*Basic Electrical and Electronics Engineering:* S. Chand Publishing

In this book we have included more examples, tutorial problems and objective test questions in almost all the chapters. The chapter on Optoelectronic Devices has been expanded to include more application examples in the area of optical fibre networks. The chapter on Regulated Power Supply carries more detailed study of fixed positive-Fixed negative and adjustable-linear IC voltage regulators as well as switching voltage regulator. The topic on OP-AMPs has been separated from the chapter on integrated Circuits. A new chapter is prepared on OP-AMPs and its Applications. The Chapter on OP-AMPs and its Applications includes OP-AMP based Oscillator circuits, active filters etc.

#### **Fundamentals of Electrical Engineering and Electronics (LPSPE)** Courier Corporation

This comprehensive and well-organized text discusses the fundamentals of electronic communication, such as devices and analog and digital circuits, which are so essential for an understanding of digital electronics. Professor Santiram Kal, with his wealth of knowledge and his years of teaching experience, compresses, within the covers of a single volume, all the aspects of

electronics - both analog and digital - encompassing devices such as microprocessors, microcontrollers, fibre optics, and photonics. In so doing, he has struck a fine balance between analog and digital electronics. A distinguishing feature of the book is that it gives case studies in modern applications of electronics, including information technology, that is, DBMS, multimedia, computer networks, Internet, and optical communication. Worked-out examples, interspersed throughout the text, and the large number of diagrams should enable the student to have a better grasp of the subject. Besides, exercises, given at the end of each chapter, will sharpen the student's mind in self-study. These student-friendly features are intended to enhance the value of the text and make it both useful and interesting.

#### **Basic Electronics - Second Edition** S. Chand Publishing

This book gives a concise presentation of the fundamentals of Electronics with applications mainly to Biosciences. It is thought that Mechanical Engineers, Computer Scientists, Physicists, Chemical Engineers and Bio-Scientists, students and graduates, will benefit from studying the book, as they will be helped to understand better the operation of the electronic equipment they use in their daily life at home and/or at work. It will also be useful to those who participate in multidisciplinary working teams, which require use of electronic equipment in their research and development projects. Additionally, it will be useful to teachers of electronics and corresponding students in Non-Electronic Engineering Departments at Technical Colleges and Universities. No previous knowledge of electronics is assumed and the reader will be helped to comprehend the material by following the numerical examples and solving the problems using MATLAB and Simulink programs.

*A Textbook of Electrical Technology - Volume IV* Vikas Publishing House

Basic Electronics, meant for the core science and technology courses in engineering colleges and universities, has been designed with the key objective of enhancing the students' knowledge in the field of electronics. Solid state electronics, a rapidly-evolving field of study, has been extensively researched for the latest updates, and the authors have supplemented the related chapters with customized pedagogical features. The required knowledge in mathematics has been developed throughout the book and no prior grasp of physical electronics has been assumed as an essential requirement for understanding the subject. Detailed mathematical derivations illustrated by solved examples enhance the understanding of the theoretical concepts. With its simple language and clear-cut style of presentation, this book presents an intelligent understanding of a complex subject like electronics.

#### **Fundamentals of Electrical Engineering and Electronics** S. Chand Publishing

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.

**Basic Electronics** Juta and Company Ltd

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

Basic Electrical Engineering S. Chand Publishing

A Textbook on Electrical Technology

Fundamentals of Electrical Engineering and Electronics S. Chand Publishing

This is an established textbook on Basic Electronics for engineering students. It has been revised according to the latest syllabus. The second edition of the book includes illustrations and detailed explanations of fundamental concepts with examples. The entire syllabus has been covered in 12 chapters.

*Basic Electronics Engineering* S. Chand Publishing

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.

**Fundamentals of Electrical Engineering and Electronics** PHI Learning Pvt. Ltd.

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

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