

Theraja Electronic Devices And Circuits

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 A Textbook of Electrical Technology
 Principles of Electronic Devices and Circuits (analog and Digital)
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 Fundamentals of Electronics Book 1: (Electronic Devices and Circuit Applications)
 Electronic devices & circuits in S.I. system of units
 Electronic Devices and Circuits
 A Textbook of Electrical Technology
 Fundamentals of Electrical Engineering and Electronics (LPSPE)

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CARRILLO STEWART

Electronic devices and circuits Merrill Publishing Company

This book, *Electronic Devices and Circuit Applications*, is the first of four books of a larger work, *Fundamentals of Electronics*. It is comprised of four chapters describing the basic operation of each of the four fundamental building blocks of modern electronics: operational amplifiers, semiconductor diodes, bipolar junction transistors, and field effect transistors. Attention is focused on the reader obtaining a clear understanding of each of the devices when it is operated in equilibrium. Ideas fundamental to the study of electronic circuits are also developed in the book at a basic level to lessen the possibility of misunderstandings at a higher level. The difference between linear and non-linear operation is explored through the use of a variety of circuit examples including amplifiers constructed with operational amplifiers as the fundamental component and elementary digital logic gates constructed with various transistor types.

Electronic Devices & Circuits S. Chand Publishing

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

Electronics Devices And Circuits S. Chand Publishing

This new text derived from class tested lecturer notes by the author fulfills the needs for a core course in Electrical, Electronics, Instrumentation and Control Engineering. Written in a lucid manner covering the fundamentals of electronic devices and circuits will help the students build a firm foundation on the subject. Key Features: Worked examples Short questions & answers

Electronic Devices and Circuits S. Chand Publishing

This book focuses on the design of digital circuits. Digital circuits serve as the fundamental framework for communication systems, recording devices, and several other applications. The subject of digital electronics is rapidly growing and offers substantial opportunities for advancement. This book explores the fundamental principles of circuit design and the detailed operations of digital circuit components. Beginning with semiconductor diodes & the many uses of diodes, the book moves methodically. To prepare students for more advanced subjects such as "Bipolar Junction Transistor (BJT) devices and Field-Effect Transistor (FET) devices," it offers a comprehensive grasp of basic concepts such as diodes and transistors. However, in addition to that, it covers a wide range of other subjects, such as feedback and oscillator circuits, power supplies, and other two-terminal devices, among PNP and other devices. In addition to this, it has a reflection on the increasing significance of operational amplifiers in the market today. This textbook provides the essential principles and acts as an exceptional resource for a basic course on digital electronics. The instruction of theory is both simple and efficient, and it is further supported by a hands-on approach that specifically addresses the requirements of students studying computer science, communication and electronics engineering, or computer engineering specialities.

Electronic Devices and Circuits PHI Learning Pvt. Ltd.

The book covers all the aspects of theory, analysis, and design of Electron Devices and Circuits for the undergraduate course. The concepts of p-n junction devices, BJT, JFET, MOSFET, electronic devices including UJT, thyristors, IGBT, Amplifier circuits-BJT, JFET and MOSFET amplifiers, multistage and differential amplifiers, feedback amplifiers, and oscillators are explained comprehensively. The book explains various p-n junction devices, including diode, LED, laser diode, Zener diode, and Zener diode regulator. The different types of rectifiers are explained in support. The book covers the construction, operation, and characteristics of BJT, JFET, MOSFET, UJT, Thyristors - SCR, Diac and Triac, and IGBT. It explains the biasing of BJT, JFET, and MOSFET amplifiers, basic BJT, JFET, and MOSFET amplifiers with h-parameters and r-parameters equivalent circuits, multistage amplifiers, differential amplifiers, BiCMOS amplifier, single tuned amplifiers, neutralization methods, power

amplifiers, and frequency response. Finally, the book incorporates a detailed discussion of the analysis of the current series, voltage series, current shunt, and voltage shunt feedback amplifiers. The book also includes the discussion of the Barkhausen criterion for oscillations and the detailed analysis of various oscillator circuits, including RC phase shift, Wien bridge, Hartley, Colpitt's, Clapp, and crystal oscillators. The book uses straightforward and lucid language to explain each topic. The book provides the logical method of describing the various complicated issues and stepwise methods to make understanding easy. The variety of solved examples is the feature of this book. The book explains the subject's philosophy, which makes understanding the concepts evident and makes the subject more interesting.

Electronic Devices and Circuits 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.

Fundamentals of Electrical Engineering and Electronics S. Chand Publishing

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.

Electronic Devices and Circuits I K International Pvt Ltd

This Book Provides A Systematic And Thorough Exposition Of Electronic Devices And Circuits. The Various Principles Are Explained In Detail And The Interconnections Between Different Concepts Are Suitably Highlighted. The Book Begins By Explaining The Transition From Physics To Electronic Devices And Highlights The Linkages Between The Two. A Detailed Treatment Of Semiconductor Devices And Circuits Is Then Presented, Followed By A Comprehensive Discussion Of Bipolar Junction Transistor (Bjt). The Next Two Chapters Focus On Field Effect Transistor (Fet). Power Devices And Cathode Ray Oscilloscope Are Then Explained. The Book Includes A Large Number Of Solved Examples To Illustrate The Concepts And Techniques Discussed. Review Questions, Unsolved Problems With Answers And Objective Questions Are Included Throughout The Book. The Book Would Serve As An Excellent Text For Both Degree And Diploma Students Of Electrical, Electronics, Computer And Instrumentation Engineering. Amie Candidates Would Also Find It Extremely Useful.

Fundamentals of Electronic Devices and Circuits Alpha Science Int'l 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.

Electronic Devices and Circuits Prentice Hall

Electronic Devices and Integrated Circuits, written for the students of electronics, emphasizes the basic working principles and operations of semiconductor devices and teaches the reader how to analyze and design electronic circuits using various devices. The book features circuits using diodes explained in detail with constant current source and constant voltage source regions; FET, MOSFET, Dual Gate MOSFET, CMOS, MESFET, DVCCS/DVCCS, biasing of discrete BJTs and ICs, and two-terminal devices.

Basic Electronic Devices and Circuits Springer Nature

Designed As A Textbook For Undergraduate Students, This Text Provides A Thorough Treatment Of

The Fundamental Concepts Of Electronic Devices And Circuits. All The Fundamental Concepts Of The Subject, Including Integrated Circuit Theory, Are Covered Extensively Along With Necessary Illustrations. Special Emphasis Has Been Placed On Circuit Diagrams, Graphs, Equivalent Circuits, Bipolar Junction Transistors And Field Effect Transistors.

Basic Electronics Scientific e-Resources

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.

Principles of Electronic Devices & Circuits S. Chand Publishing

This book focuses on conceptual frameworks that are helpful in understanding the basics of electronics – what the feedback system is, the principle of an oscillator, the operational working of an amplifier, and other relevant topics. It also provides an overview of the technologies supporting electronic systems, like OP-AMP, transistor, filter, ICs, and diodes. It consists of seven chapters, written in an easy and understandable language, and featuring relevant block diagrams, circuit diagrams, valuable and interesting solved examples, and important test questions. Further, the book includes up-to-date illustrations, exercises, and numerous worked examples to illustrate the theory and to demonstrate their use in practical designs.

Electronic Devices and Circuits PHI Learning Pvt. Ltd.

Understanding basic operational and applications of electronic devices is fundamental in understanding the functional and design aspects of electronics techniques, sub system or system irrespective of whether it is analog or digital. The study of electronics devices and circuits is essential since majority of electronics systems have both analog and digital content. The book Basic Electronic Devices and Circuits is primarily for diploma, Degree and other Engineering examinations. It will also meet the needs of those readers who wish to gain sound knowledge of electronics. The purpose of this book is to provide a comprehensive and up-to-date study. The book uses a plain, lucid and everyday language to explain the subject matter. The entire content in the book is provided in a logical, orderly and a self-understandable manner. The book prepares very carefully a background of each topic with essential illustration and diagrams.

Electronic Devices and Circuits John Wiley & Sons

Detailed theory, operation and application of devices and circuits 1000 objective type question and answers 150 solved problems 100 exercise problems with solution manual 27 experiments Power consumption details Electronic Devices and Circuits contains the fundamentals of electronic devices and their applications. The book is centred around the basic characteristics, analysis, design and application aspects of conductors, insulators, semi-conductors, resistors, inductors, capacitors, basic network theorems, test and measuring meters, fabrication techniques, diodes, transistors, amplifiers and oscillators. The fundamentals concepts of the subject are described pointwise for easy readability and grasp. Several solved problems, objective-type questions and multiple-choice question with answers, exercise questions with solution manual and a large number worked out examples, besides 27 experiments conducted for all the engineering and science students are the highlight of the book. The entire content in the book is provided in a logical, orderly and a self-understandable manner.

Electronic Devices and Circuits Pearson Education India

□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.

Electronic Devices and Integrated Circuits: Technical Publications

This book, now in its Second Edition, provides a basis for understanding the characteristics, working principle, operation and limitations of semi-conductor devices. In this new edition, many sections are re-written to present the concepts related to device physics in more clearer and easy to understand manner. The primary objective of this textbook is to provide all the relevant topics on the semiconductor materials and semiconductor devices in a single volume. It includes enough mathematical expressions to provide a good foundation for the basic understanding of the

semiconductor devices. It covers not only the state-of-the-art devices but also future approaches that go beyond the current technology. Designed primarily as a text for the postgraduate students of physics and electronics, the book would also be useful for the undergraduate students of electronics and electrical engineering, and electronics and communication engineering. Highlights of the Book : Includes topics on the latest technologies Covers important points in each chapter Provides a number of solved and unsolved problems along with explanation type questions Emphasizes on the mathematical derivation

Basic Electronics S. Chand Publishing

Designed as a text for the students of various engineering streams such as electronics/electrical engineering, electronics and communication engineering, computer science and engineering, IT, instrumentation and control and mechanical engineering, this well-written text provides an introduction to electronic devices and circuits. It introduces to the readers electronic circuit analysis and design techniques with emphasis on the operation and use of semiconductor devices. It covers principles of operation, the characteristics and applications of fundamental electronic devices such as p-n junction diodes, bipolar junction transistors (BJTs), and field effect transistors (FETs), and special purpose diodes and transistors. In its second edition, the book includes a new chapter on “special purpose devices”. What distinguishes this text is that it explains the concepts and applications of the subject in such a way that even an average student will be able to understand working of electronic devices, analyze, design and simulate electronic circuits. This comprehensive book provides: • A large number of solved examples. • Summary highlighting the important points in the chapter. • A number of Review Questions at the end of each chapter. • A fairly large number of unsolved problems with answers.

Electron Devices and Circuits New Age International

In recent years Fundamentals of Electronic Devices & Circuits 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 Bipolar Junction Transistors Chapter 5: Junction Field Effect Transistor & Metal Oxide Semiconductor Field Effect Transistor Chapter 6: SINUSOIDAL OSCILLATORS, Silicon Controlled Rectifier, Uni Junction Transistor, Solar Panel, Tunnel Diode, Photo Diode, Schottky Diode, Liquid Crystal Display & Light Emitting Diode 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. Salient Features *Detailed coverage of Introduction to Electronics, Current and Voltage Sources and Semiconductor Physics, Semiconductor Diode and its Applications. *Comprehensive Coverage of Bipolar Junction Transistor (BJT), Transistor Biasing and Stabilization of Operating Point and Applications of BJTs. *Detailed coverage of Junction Field Effect Transistor & Metal Oxide Semiconductor Field Effect Transistor. *Detailed coverage of Sinusoidal Oscillators, SCR, UJT, Solar Panel, Tunnel Diode, Photo Diode, Schottky Diode, LCD & LED. *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 Electronic Devices and circuits. *Clear perception of the various problems with a large number of neat, well drawn and illustrative diagrams. *Simple Language, easy- to- understand manner.

Principles of Electronic Devices & Circuits Pearson Education India

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.