
Electronic Devices And Circuits Jb Gupta

Electronic Devices and Circuits
 An Integrated Course In Electrical Engineering (3rd Edition)
 Practical Electronics for Inventors 2/E
 Electronic Devices and Circuits
 Solid State
 Electronic Counting Circuits
 Electronic Devices and Circuits
 The Commonwealth and International Library: Electrical Engineering Division
 Electronic Devices and Circuits
 SQUIDS, the Josephson Effects and Superconducting Electronics
 Electronic Devices and Circuit Design
 Power Electronics
 The Electronics Revolution
 Challenges and Applications in the Internet of Things
 Circuits and Applications
 Basic Electronics
 Electronics Devices and Circuits
 Electronic Devices and Circuits
 Electronic Devices and Circuits
 ELECTRONIC DEVICES AND CIRCUITS
 Millman's Electronic Devices and Circuits
 In International System SI of Units
 Fundamentals of Electrical Engineering and Electronics
 Fundamentals of Electronic Devices
 Electronic Devices And Circuits
 Electronic Devices and Circuits
 Principles of Electronic Devices & Circuits
 Radio-Frequency Electronics
 Analog Electronics—GATE, PSUS AND ES Examination
 Basic Analog Electronics
 Microwave Devices, Circuits and Subsystems for Communications Engineering
 Getting Started in Electronics
 FUNDAMENTALS OF DIGITAL CIRCUITS
 Electronic Devices and Circuits
 Elements of Electronic Devices & Circuit
 Devices, Circuits and Industrial Applications
 For B.E., B.Tech., B.Sc. (Engineering), M.Sc., B.Sc. Diploma, Sec B. of A.M.I.E. (India); A.M.I.E.E. (London), Grad. I.E.T.E. (India); I.E.R.E. (London), U.P.S.C.I.E.S. and Other Various Competitive Examinations
 Principles of Electronics
 Schaum's Outline of Electronic Devices and Circuits, Second Edition

*Electronic Devices And
Circuits Jb Gupta*

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Electronic Devices and Circuits 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.
An Integrated Course In Electrical Engineering (3rd Edition) I. K. International Pvt Ltd
 Digital Design and Computer Organization introduces digital design as it applies to the creation of computer systems. It summarizes the tools of logic design and their mathematical basis, along with in depth coverage of combinational and sequential circuits. The book includes an accompanying CD that includes the majority of circuits highlighted in the text, delivering you hands-on experience in the simulation and observation of circuit functionality. These circuits were designed and tested with a user-friendly Electronics Workbench package (Multisim Textbook Edition) that enables your progression from truth tables onward to more complex designs. This volume differs from

traditional digital design texts by providing a complete design of an AC-based CPU, allowing you to apply digital design directly to computer architecture. The book makes minimal reference to electrical properties and is vendor independent, allowing emphasis on the general design principles.
Practical Electronics for Inventors 2/E Alpha Science Int'l Ltd.
 The Fourth edition of this well-received text continues to provide coherent and comprehensive coverage of digital circuits. It is designed for the undergraduate students pursuing courses in areas of engineering disciplines such as Electrical and Electronics, Electronics and Communication, Electronics and Instrumentation, Telecommunications, Medical Electronics, Computer Science and Engineering, Electronics, and Computers

and Information Technology. It is also useful as a text for MCA, M.Sc. (Electronics) and M.Sc. (Computer Science) students. Appropriate for self study, the book is useful even for AMIE and grad IETE students. Written in a student-friendly style, the book provides an excellent introduction to digital concepts and basic design techniques of digital circuits. It discusses Boolean algebra concepts and their application to digital circuitry, and elaborates on both combinational and sequential circuits. It provides numerous fully worked-out, laboratory tested examples to give students a solid grounding in the related design concepts. It includes a number of short questions with answers, review questions, fill in the blanks with answers, multiple choice questions with answers and exercise problems at the end of each chapter.

Electronic Devices and Circuits Seagull Books Pvt Ltd

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

Solid State McGraw-Hill Education

This updated version of its internationally popular predecessor provides an introductory problem-solved text for understanding fundamental concepts of electronic devices, their design, and their circuitry. Providing an interface with Pspice, the most widely used program in electronics, new key features include a new chapter presenting the basics of switched mode power supplies, thirty-one new examples, and twenty-three PS solved problems.

Electronic Counting Circuits John Wiley & Sons

The science of superconducting electronics was first developed over forty years ago, fifty years after the discovery of superconductivity. Since then, a wide range of applications has emerged, and more are envisaged within this ever expanding and exciting field. SQUIDs, the Josephson Effects and Superconducting Electronics chronicles this development from fundamental principles to the present work with high-temperature superconductors. The book discusses superconductivity, Josephson effects, and detectors of unparalleled sensitivity such as SQUIDs. It punctuates theory with practical discussions on how to harness

this new science. This complete guide to the subject is an invaluable resource for graduate students and researchers with a specific interest in this field. It also provides guidance to those working in areas of industry where superconducting electronics could be applied.

Electronic Devices and Circuits For B.E., B.Tech., B.Sc. (Engineering), M.Sc., B.Sc. Diploma, Sec B. of A.M.I.E. (India); A.M.I.E.E. (London), Grad. I.E.T.E. (India); I.E.R.E. (London), U.P.S.C.I.E.S. and Other Various Competitive Examinations

Electronic Devices and Circuits is designed specifically to cater to the needs of the students of B.Tech. in Electronics and Communication Engineering. The book has a perfect blend of focused content and complete coverage. Simple, easy-to-understand and jargon-free text elucidates the fundamentals of electronics. Several solved examples, circuit diagrams and adequate questions further help students understand and apply the concepts

Salient Features: - Comprehensive coverage of syllabus requirements - Topics illustrated with diagrams for better understanding - Equal emphasis on mathematical derivations and physical interpretations

The Commonwealth and International Library: Electrical Engineering Division Pearson Education India

Electricity -- Electronic components -- Semiconductors -- Photonic semiconductors -- Integrated circuits -- Digital integrated circuits -- Linear integrated circuits -- Circuit assembly tips - 100 electronic circuits.

Electronic Devices and Circuits PHI Learning Pvt. Ltd.

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.

SQUIDs, the Josephson Effects and Superconducting Electronics SK Kataria and sons

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.

Electronic Devices and Circuit Design BoD - Books on Demand

This new volume offers a broad view of the challenges of electronic devices and circuits for IoT applications. The book presents the basic concepts and fundamentals behind new low power, high-speed efficient devices, circuits, and systems in addition to CMOS. It provides an understanding of new materials to improve device performance with smaller dimensions and lower costs. It also looks at the new methodologies to enhance system performance and provides key parameters for exploring the devices and circuit performance based on smart applications. The chapters delve into myriad aspects of circuit design, including MOSFET structures depending on their low power applications for IoT-enabled systems, advanced sensor design and fabrication using MEMS, indirect bootstrap techniques, efficient CMOS comparators, various encryption-decryption algorithms, IoT video forensics applications, microstrip patch antennas in embedded IoT applications, real-time object detection using sound, IOT and nanotechnologies based wireless sensors, and much more. PHI Learning Pvt. Ltd.

Covering the fundamentals applying to all radio devices, this is a perfect introduction to the subject for students and

professionals.

Power Electronics Springer

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.

The Electronics Revolution Technical Publications

Power Electronics: Devices, Circuits and Industrial Applications would serve as an invaluable text for undergraduate and postgraduate courses on power electronics. It would also be a useful reference for practicing design engineers. The book provides an exhaustive coverage of various power electronic devices with emphasis on the thyristor. The characteristics of modern power semiconductor devices like the power transistor, MOSFET and the IGBT are also discussed. Other relevant topics like cycloconverters, brushless DC motors, microprocessor fundamentals, microprocessor control of industrial

equipment, and field-oriented control of AC motors, are dealt with in detail. With its in-depth presentation of topics, detailed and easy-to-understand derivations, the emphasis of the book is on the understanding of fundamental concepts. The theory is well-supported by a large number of solved and unsolved problems and multiple choice questions. The lucid treatment in the book encourages self-study and motivates the student towards independent problem solving.

Challenges and Applications in the Internet of Things Oxford University Press, USA

Electronic Devices and Circuits, Volume 1 presents the extensive development of semiconductor devices. This book examines some of the electronic instruments in general use, with emphasis on the cathode ray oscilloscope as the basic instrument for the design and investigation of any circuit. Comprised of nine chapters, this volume begins with an overview of operation of inductive, resistive, and capacitive elements in d.c. and a.c. circuits. This text then explains the construction and limitations of the passive components used in electronic circuits. Other chapters consider the relation of charged particles to an atomic structure of elements and their movement under the action of magnetic and electric fields. This book discusses as well the characteristics and construction of some of the diodes in common use. The final chapter deals with the use of two and three element devices in rectifying circuits. This book is a valuable resource for aspiring professional and technician engineers in the electronics industry.

Circuits and Applications Krishna Prakashan Media

This book is about how electronics, computing, and telecommunications have profoundly changed our lives - the way we work, live, and play. It covers a myriad of topics from the invention of the fundamental devices, and integrated circuits, through radio and television, to computers, mobile telephones and GPS. Today our lives are ruled by electronics as they control the home and computers dominate the workspace. We walk around with mobile phones and communicate by email. Electronics didn't exist until into the twentieth century. The industrial revolution is the term usually applied to the coming of steam, railways and the factory system. In the twentieth century, it is electronics that has changed the way we gather our information, entertain ourselves, communicate and work. This book demonstrates that this is, in fact, another revolution.

Basic Electronics SK Kataria and sons

Microwave Devices, Circuits and Subsystems for Communications Engineering provides a detailed treatment of the common microwave elements found in modern microwave communications systems. The treatment is thorough without being unnecessarily mathematical. The emphasis is on acquiring a conceptual understanding of the techniques and technologies discussed and the practical design criteria required to apply these in real engineering situations. Key topics addressed include: Microwave diode and transistor equivalent circuits Microwave transmission line technologies and microstrip design Network methods and s-parameter measurements Smith chart and related design techniques Broadband and low-noise amplifier design Mixer theory and design Microwave filter design Oscillators, synthesisers and phase locked loops Each chapter is written by specialists in their field and the whole is edited by experience authors whose expertise spans the fields of communications systems engineering and microwave circuit design. Microwave Devices, Circuits and Subsystems for Communications Engineering is suitable for senior electrical, electronic or telecommunications engineering undergraduate students, first year postgraduate students and experienced engineers seeking a conversion or refresher text. Includes a companion website featuring: Solutions to selected problems Electronic versions of the figures Sample chapter

Electronics Devices and Circuits Pearson College Division

Electronic Devices and Circuits For B.E., B.Tech., B.Sc. (Engineering), M.Sc., B.Sc. Diploma, Sec B. of A.M.I.E. (India); A.M.I.E.E. (London), Grad. I.E.T.E. (India); I.E.R.E. (London), U.P.S.C.I.E.S. and Other Various Competitive Examinations

Electronic Devices And Circuits Seagull Books Pvt Ltd The Electronics Revolution Inventing the Future Springer

Electronic Devices and Circuits Vikas Publishing House

A new chapter on Applications of Diodes. Provides essential understanding of the internal behavior and characteristics of electron/ semiconductor devices. Low and high frequency responses covered separately. Pedagogy includes: 90 solved problems 534 pract.

Electronic Devices and Circuits Prentice Hall

Using a structured, systems approach, this volume provides a modern, thorough treatment of electronic devices and circuits -- with a focus on topics that are

important to modern industrial applications and emerging technologies. The P-N Junction. The Diode as a Circuit Element. The Bipolar Junction Transistor. Small Signal BJT Amplifiers. Field-Effect

Transistors. Frequency Analysis. Transistor Analog Circuit Building Blocks. A Transistor View of Digital VLSI Design. Ideal Operational Amplifier Circuits and Analysis. Operational Amplifier Theory and Performance. Advanced Operational

Amplifier Applications. Signal Generation and Wave-Shaping. Power Amplifiers. Regulated and Switching Power Supplies. Special Electronic Devices. D/A and A/D Converters.

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