

Electronic Circuits - I

Editor: Dr. P. R. Godse, Professor at
Jawahar Education Society's
Institute of Engineering & Technology

Key Features

- Includes a theoretical approach with examples.
- Several laboratory experiments have been included.



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Electronic Circuits Atul P. Godse, Uday A. Bakshi, 2020-12-01 The book covers all the aspects of theory analysis and design of Electronic Circuits for the undergraduate course. It provides all the essential information required to understand the operation and perform the analysis and design of a wide range of electronic circuits including MOSFET as a switching and amplifier circuits, feedback amplifiers, oscillators, voltage regulators, operational amplifiers and its applications, DAC, ADC and Phase Locked Loop. The book is divided into four parts. The first part focuses on the fundamental concepts of MOSFET, MOSFET construction, characteristics and circuits as a switch, as a resistor, diode as an amplifier and current sink and source circuits. The second part focuses on the analysis of voltage series and current series feedback amplifiers. It also explains the Barkhausen criterion for oscillation and incorporates the detailed analysis of Wien bridge and phase shift oscillators. The third part is dedicated to the basics of op amp and a discussion of a variety of its applications. The fourth part focuses on the V to I and I to V Converters, DAC and ADC and Phase Locked Loop. 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.

Electron Devices and Circuits Atul. P. Godse, Uday A. Bakshi, 2020-11-01 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 Circuits-I Atul. P. Godse, Uday A. Bakshi, 2020-11-27 The book covers all the aspects

of theory analysis and design of Electronic Circuits for the undergraduate course The concepts of biasing of BJT JFET MOSFET along with the analysis of BJT FET and MOSFET amplifiers are explained comprehensively The frequency response of amplifiers is explained in support The detailed essential of rectifiers filters and power supplies are also incorporated in the book The book covers biasing of BJT JFET and MOSFET and analysis of basic BJT JFET and MOSFET amplifiers with Hybrid equivalent circuits It also includes the Darlington amplifier discussion amplifiers using Bootstrap technique multistage amplifiers differential amplifiers and BiCMOS cascade amplifier The in depth analysis of the frequency response of various amplifiers is also included in the book Finally the book covers all the aspects of rectifiers types of filters linear regulators power supplies and switching regulators 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 Circuits* Atul P. Godse,2014

Electronic Circuits - i U. A. Bakshi,2005 *Electrical Machines - I* Uday A. Bakshi,Dr. Mayuresh V. Bakshi,2020-11-01 The importance of various electrical machines is well known in the various engineering fields The book provides comprehensive coverage of the magnetic circuits magnetic materials single and three phase transformers and d c machines The book is structured to cover the key aspects of the course Electrical Machines I The book starts with the explanation of basics of magnetic circuits concepts of self and mutual inductances and important magnetic materials Then it explains the fundamentals of single phase transformers including the construction phasor diagram equivalent circuit losses efficiency methods of cooling parallel operation and autotransformer The chapter on three phase transformer provides the detailed discussion of construction connections phasor groups parallel operation tap changing transformer and three winding transformer The various testing methods of transformers are also incorporated in the book The book further explains the concept of electromechanical energy conversion including the discussion of singly and multiple excited systems Then the book covers all the details of d c generators including construction armature reaction commutation characteristics parallel operation and applications The book also includes the details of d c motors such as characteristics types of starters speed control methods electric braking and permanent magnet d c motors Finally the book covers the various testing methods of d c machines including Swinburne s test brake test retardation test and Hopkinson s test The book uses plain lucid language to explain each topic The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy Each chapter is well supported with necessary illustrations self explanatory diagrams and variety of solved problems All the chapters are arranged in a proper sequence that permits each topic to build upon earlier studies The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting **Fundamentals of Electronics: Book 1** Thomas F. Schubert,Ernest M. Kim,2015-05-01

This book *Electronic Devices and Circuit Application* 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. *Fundamentals of Electronics* has been designed primarily for use in an upper division course in electronics for electrical engineering students. Typically such a course spans a full academic year consisting of two semesters or three quarters. As such, *Electronic Devices and Circuit Applications* and the following two books, *Amplifiers Analysis and Design* and *Active Filters and Amplifier Frequency Response* form an appropriate body of material for such a course. Secondary applications include the use in a one semester electronics course for engineers or as a reference for practicing engineers.

Basic Electronics, 2013 **A Textbook of Electronic Circuits** R. S. Sedha, 2010-12 The foremost and primary aim of the book is to meet the requirements of students of Anna University, Bharathidasan University, Mumbai University as well as B.E./B.Sc. of all other Indian Universities. **Basic Electrical Engineering** Uday A. Bakshi, Varsha U. Bakshi, 2013 *Circuit Engineering* Solis Tech, 2015-10-23 Is Circuit Engineering what you want to learn? Always wondered how one becomes an Electrical Engineer? Do Semiconductors and Circuit Boards interest you? Purchase *Circuit Engineering* to discover everything you need to know about basic electronics. Step by step to increase your electrical skills. Learn the anatomy of a circuit. All your basic knowledge in one download. You need to get it now to know what's inside as it can't be shared here. Purchase *Circuit Engineering* TODAY. **Principles of Electronic Circuits** Stanley G. Burns, Paul R. Bond, 1997. Accompanying CD-ROM includes Evaluation version of PSpice. SPICE netlists, Electronic Workbench circuit models, and Acrobat transparencies. *Basic Electronics* A.P. Godse, 1959.

Digital IC Applications Atul P. Godse, Dr. Deepali A. Godse, 2021-01-01 The book is written for an undergraduate course on Digital Electronics. The book provides basic concepts, procedures, and several relevant examples to help the readers to understand the analysis and design of various digital circuits. The book uses plain and lucid language to explain each topic. A large number of design examples with commercially available SSI and MSI chips is the feature of this book. The book begins with the CMOS, TTL, and ECL logic families. It teaches you the analysis and design of combinational and sequential circuits using SSI and MSI chips. It provides in-depth information about multiplexers, demultiplexers, decoders, encoders, priority encoders, devices for arithmetic operations, multipliers, tri-state devices, comparators, parity circuits, various types of flip-flops, counters, and registers. It also covers semiconductor memories and programmable logic devices. **Basic Electronics**

Circuits Royal Electrical & Mechanical Engineers,1962

Basic Electronics Harold D. Holbrook,Walter J.

Seeley,2013-10-22 Basic Electronics is an elementary text designed for basic instruction in electricity and electronics It gives emphasis on electronic emission and the vacuum tube and shows transistor circuits in parallel with electron tube circuits This book also demonstrates how the transistor merely replaces the tube with proper change of circuit constants as required Many problems are presented at the end of each chapter This book is comprised of 17 chapters and opens with an overview of electron theory followed by a discussion on resistance inductance and capacitance along with their effects on the currents flowing in circuits under constant applied voltages Resistances inductances and capacitances in series and parallel are considered The following chapters focus on impedance and factors affecting impedance electronics and electron tubes semiconductors and transistors basic electronic circuits and basic amplifier circuits Tuned circuits basic oscillator circuits and electronic power supplies are also described together with transducers antennas and modulators and demodulators This monograph will serve as background training in theory for electronic technicians and as fundamental background for students who wish to go deeper into the more advanced aspects of electronics

Electronic Circuits Paul M. Chirlian,1971

ELECTRONIC CIRCUITS AND SYSTEMS Robert King,1978

Basic Electronic Circuits ,1962

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