

Basic Electrical And Electronics Engineering By Salivahanan

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Basic El,Elc &Comp 2E - R. Muthusubramanian 2000-07-01

Indian National Bibliography - B. S. Kesavan 2018-10

*Compr. Linear and Digital Integrated Circuits Design** - A. Sudhakar 2001

Digital Circuits and Design - S. Salivahanan 2018-05-15

Digital Circuits and Design is a textbook dealing with the basics of digital technology including the design aspects of circuits. The book fulfils the requirements of the students of electrical, electronics, and computer science engineering for the first course on the subject. The book is divided into 16 chapters. Each chapter begin with an introduction and ends with a set of review questions and problems. All the topics have been illustrated with clear diagrams. A variety of examples are given to enable students to design digital circuits efficiently. The fifth edition of the book provides discussion of Verilog, a popular hardware description language, to demonstrate solutions to problems in digital design. The current edition also provides additional example problems.

Induction And Synchronous Machines - K Murugesh Kumar 2000-12-01

This book is a sequel to the author's DC Machines & Transformers.

Comprehensive, lucid and student-friendly, it adopts a self-study approach and is aimed at demystifying the subject for students who consider 'Electric Machines' too tough. The book covers Induction Machines in 8 chapters and Synchronous Machines in 9 chapters.

Basic Electronics Engineering - Satya Sai Srikant 2020-04-27

This book is primarily designed to serve as a textbook for undergraduate students of electrical, electronics, and computer engineering, but can also be used for primer courses across other disciplines of engineering and related sciences. The book covers all the basic aspects of electronics engineering, from electronic materials to devices, and then to basic electronic circuits. The book can be used for freshman (first year) and sophomore (second year) courses in undergraduate engineering. It can also be used as a supplement or primer for more advanced courses in electronic circuit design. The book uses a simple narrative style, thus simplifying both classroom use and self study. Numerical values of dimensions of the devices, as well as of data in figures and graphs have been provided to give a real world feel to the device parameters. It includes a large number of numerical problems and solved examples, to enable students to practice. A laboratory manual is included as a supplement with the textbook material for practicals related to the coursework. The contents of this book will be useful also for students and enthusiasts interested in learning about basic electronics without the benefit of formal coursework.

Digital Electronics - Anil K. Maini 2007-09-27

The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer/industrial electronics, communications, embedded systems, computers, security and military equipment. Devices used in applications such as these are constantly decreasing in size and employing more complex technology. It is therefore essential for engineers and students to understand the fundamentals, implementation and application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. With worked problems, examples, and review questions for each chapter, Digital Electronics includes: information on number systems, binary codes, digital arithmetic, logic gates and families, and Boolean algebra; an in-depth look at multiplexers, de-multiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data

conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital troubleshooting and digital instrumentation. A comprehensive, must-read book on digital electronics for senior undergraduate and graduate students of electrical, electronics and computer engineering, and a valuable reference book for professionals and researchers.

PSpice for Circuit Theory and Electronic Devices - Paul Tobin 2013-08-01

PSpice for Circuit Theory and Electronic Devices is one of a series of five PSpice books and introduces the latest Cadence Orcad PSpice version 10.5 by simulating a range of DC and AC exercises. It is aimed primarily at those wishing to get up to speed with this version but will be of use to high school students, undergraduate students, and of course, lecturers.

Circuit theorems are applied to a range of circuits and the calculations by hand after analysis are then compared to the simulated results. The Laplace transform and the s-plane are used to analyze CR and LR circuits where transient signals are involved. Here, the Probe output graphs demonstrate what a great learning tool PSpice is by providing the reader with a visual verification of any theoretical calculations. Series and parallel-tuned resonant circuits are investigated where the difficult concepts of dynamic impedance and selectivity are best understood by sweeping different circuit parameters through a range of values.

Obtaining semiconductor device characteristics as a laboratory exercise has fallen out of favour of late, but nevertheless, is still a useful exercise for understanding or modelling semiconductor devices. Inverting and non-inverting operational amplifiers characteristics such as gain-bandwidth are investigated and we will see the dependency of bandwidth on the gain using the performance analysis facility. Power amplifiers are examined where PSpice/Probe demonstrates very nicely the problems of cross-over distortion and other problems associated with power transistors. We examine power supplies and the problems of regulation, ground bounce, and power factor correction. Lastly, we look at MOSFET device characteristics and show how these devices are used to form basic CMOS logic gates such as NAND and NOR gates.

Electronic Devices and Circuits - Jacob Millman 1976

Electronic Devices and Circuits - Franz Monssen 1996

A Face in the Dark and Other Hauntings - Ruskin Bond 2016-11-21

In Ruskin Bond's stories, ghosts, jinns, witches—and the occasional monster—are as real as the people he writes about. This collection brings together all of his tales of the paranormal, opening with the unforgettable, 'A Face in the Dark', and ending with the shockingly macabre, 'Night of the Millennium'. Featuring thrilling situations and strange beings, A Face in the Dark and Other Hauntings is the perfect collection to have by your bedside when the moon is up.

Basic Electrical Engineering - C. L. Wadhwa 2007-01-01

Embedded Systems - Rao B. Kanta 2011

Electromagnetic Field Theory - Uday A. Bakshi 2020-11-01

The comprehensive study of electric, magnetic and combined fields is nothing but electromagnetic engineering. Along with electronics, electromagnetics plays an important role in other branches. The book is structured to cover the key aspects of the course Electromagnetic Field Theory for undergraduate students. The knowledge of vector analysis is the base of electromagnetic engineering. Hence book starts with the discussion of vector analysis. Then it introduces the basic concepts of electrostatics such as Coulomb's law, electric field intensity due to various charge distributions, electric flux, electric flux density, Gauss's law, divergence and divergence theorem. The book continues to explain the concept of elementary work done, conservative property, electric potential and potential difference and the energy in the electrostatic

fields. The detailed discussion of current density, continuity equation, boundary conditions and various types of capacitors is also included in the book. The book provides the discussion of Poisson's and Laplace's equations and their use in variety of practical applications. The chapter on magnetostatics incorporates the explanation of Biot-Savart's law, Ampere's circuital law and its applications, concept of curl, Stoke's theorem, scalar and vector magnetic potentials. The book also includes the concept of force on a moving charge, force on differential current element and magnetic boundary conditions. The book covers all the details of Faraday's laws, time varying fields, Maxwell's equations and Poynting theorem. Finally, the book provides the detailed study of uniform plane waves including their propagation in free space, perfect dielectrics, lossy dielectrics and good conductors. 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. The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the electromagnetics in the students. Each chapter is well supported with necessary illustrations and self-explanatory diagrams. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Digital Electronics - Muhamad Salina 2013

BASIC ELECTRONICS - SANTIRAM KAL 2009-01-14

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.

All New Electronics Self-Teaching Guide - Harry Kybett 2011-02-23

For almost 30 years, this book has been a classic text for electronics enthusiasts. Now completely updated for today's technology with easy explanations and presented in a more user-friendly format, this third edition helps you learn the essentials you need to work with electronic circuits. All you need is a general understanding of electronics concepts such as Ohm's law and current flow, and an acquaintance with first-year algebra. The question-and-answer format, illustrative experiments, and self-tests at the end of each chapter make it easy for you to learn at your own speed.

Basic Electrical and Electronics Engineering - B. R. Patil 2012

Linear Integrated Circuits - D Choudhury Roy 2003

Designed Primarily For Courses In Operational Amplifier And Linear Integrated Circuits For Electrical, Electronic, Instrumentation And Computer Engineering And Applied Science Students. Includes Detailed Coverage Of Fabrication Technology Of Integrated Circuits. Basic Principles Of Operational Amplifier, Internal Construction And Applications Have Been Discussed. Important Linear Ics Such As 555 Timer, 565 Phase-Locked Loop, Linear Voltage Regulator Ics 78/79 Xx And 723 Series D-A And A-D Converters Have Been Discussed In Individual Chapters. Each Topic Is Covered In Depth. Large Number Of Solved Problems, Review Questions And Experiments Are Given With Each Chapter For Better Understanding Of Text. Salient Features Of Second Edition * Additional Information Provided Wherever Necessary To Improve The Understanding Of Linear Ics. * Chapter 2 Has Been Thoroughly Revised. * Dc & Ac Analysis Of Differential Amplifier Has Been Discussed In Detail. * The Section On Current Mirrors Has Been Thoroughly Updated. * More Solved Examples, Pspice Programs And Answers To Selected Problems Have Been Added.

Electronic Devices & Circuits - Inc John Wiley & Sons 2013

Linear Integrated Circuits - Salivahanan 2008-10-07

Meant for the undergraduate students of electrical and electronics

engineering this text on Linear Integrated Circuits and Op Amps covers the entire syllabus of the subject. Written in a simple and student friendly language, it will help in building strong foundation in the principles of linear integrated circuits.

Digital Circuits And Design, 3E - Arivazhagan S Salivahanan 2009-11

The Use Of Digital Circuits Is Increasing In All Disciplines Of Engineering. Consequently Students Need To Have An In-Depth Knowledge On Them. Digital Circuits And Design Is A Textbook Dealing With The Basics Of Digital Technology Including The Design Asp
Basic Electrical Engineering - V. N. Mittle 1990

A Textbook of Applied Electronics - RS Sedha 2008-02

The present book has been thoroughly revised and lot of useful material has been added .several photographs of electronic devices and their specifications sheets have been included.This will help the students to have a better understanding of the electric devices and circuits from application point of view.the mistake and misprints,which has crept in,have been eliminated in this edition.

Dc Machines And Transformers 2Ed - K Murugesh Kumar 2004-12-01

Comprehensive, lucid and student-friendly in the true sense, DC Machines and Transformers adopts a self-study approach and is aimed at demystifying the subject for students who consider 'Electric Machines' too tough. This second edition has been thoroughly revised and includes a summary at the end of each chapter, many short and long answer questions taken from question papers of various universities over the last 25 years.

Basic Electrical,electronics,& Computer Communication Eng'ng' 2003 Ed.1999 Edition -

Principles of Electrical Machines - VK Mehta | Rohit Mehta 2008

For over 15 years "Principles of Electrical Machines" is an ideal text for students who look to gain a current and clear understanding of the subject as all theories and concepts are explained with lucidity and clarity. Succinctly divided in 14 chapters, the book delves into important concepts of the subject which include Armature Reaction and Commutation, Single-phase Motors, Three-phase Induction motors, Synchronous Motors, Transformers and Alternators with the help of numerous figures and supporting chapter-end questions for retention.

Digital Signal Processing - S. Salivahanan 2000

FUNDAMENTALS OF DIGITAL CIRCUITS - A. ANAND KUMAR, 2016-07-18

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 (for Jntu) - Salivahanan 1988

A Textbook of Electrical Technology - Volume III - BL Theraja 2007

A textbook of Electrical Technology.In this edition,two new chapters have ben aded namely Rating & Service Capacity'and distribution Automation .The First chapter will be usefu to degree/diploma students underdoing their first course in Electrical Drives.Italso contains many solved problems for the benefit of students.Another new chapter'istribution Automation' is a latest development in the field of Electrical Power System Engineering.Tillrecent years,stress was given on Generation and Transmission.

Basic Electrical Engineering - Mehta V.K. & Mehta Rohit 2008

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.

Basic Electrical and Electronics Engineering - R.K. Rajput 2007

Basic Electrical and Electronics Engineering: - S.K. Bhattacharya
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

Basic Electronics (Includes Solved Problems and MCQs) - B. Somanathan Nair 2013-12-30

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.

Experimentation, Viva-Voice On Electrical Machines - Mittle V.N. 2004-01-01

Fundamentals of Experimentation * Basic Experiments in Electrical Engineering * Fundamentals of D.C. Machine * Experimentation on D.C. Machine * Fundamentals of Transformer * Experimentation on Transformers * Fundamentals of Induction Motor * Experimentation on Induction Motors * Fundamentals of Synchronous Machine * Experimentation on Synchronous Machines * Viva-Voce Questions (with answer) on Fundamentals of Electrical Engineering * Viva-voce

Questions on D.C. Machines * Viva-voce Questions on Transformer * Viva-voce Questions on Induction Motor * Viva-voce Questions on Synchronous Machines

Ele Dev & Cir 2E - Salivahanan 2008-07-07

This book is meant for the undergraduate students of Electronics, Electrical, Instrumentation and Computer Science Engineering for the courses on Basic Electronics/Electronic Devices and Circuits. It gives detailed description of the operation and characteristics of modern active and passive electronic devices. Logical organization of the chapters, simple language, wide variety of problems with their step by step solutions for every concept makes this book a perfect offering on the subject.

PULSE AND DIGITAL CIRCUITS - A. ANAND KUMAR 2008-02-12

The second edition of this well-received text continues to provide a coherent and comprehensive coverage of Pulse and Digital Circuits, suitable as a textbook for use by undergraduate students pursuing courses in Electrical and Electronics Engineering, Electronics and Communication Engineering, Electronics and Instrumentation Engineering, and Telecommunication Engineering. It presents clear explanations of the operation and analysis of semiconductor pulse circuits. Practical pulse circuit design methods are investigated in detail. The book provides numerous fully worked-out, laboratory-tested examples to give students a solid grounding in the related design concepts. It includes a number of classroom-tested problems to encourage students to apply theory in a logical fashion. Review questions, fill in the blanks, and multiple choice questions offer the students the opportunity to test their understanding of the text material. This text will be also appropriate for self-study by AMIE and IETE students. NEW TO THIS EDITION : • Includes two new chapters—Logic Gates and Logic Families—to meet the curriculum requirements. • Provides short questions with answers at the end of each chapter. • Presents several new illustrations, examples and exercises

Semiconductor Optoelectronics - Jasprit Singh 1995

Electronic Devices And Circuit Theory,9/e With Cd - Boylestad 2007