Microwave Engineering Godse Bakshi

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Microprocessors & Microcontrollers PHI Learning Pvt. Ltd.

The importance of Electrical Circuit Analysis is well known in the various engineering fields. The book provides comprehensive coverage of mesh and node analysis, various network theorems, analysis of first and second order networks using time and Laplace domain, steady state analysis of a.c. circuits, coupled circuits and dot conventions, network

functions, resonance and two port network parameters. The book starts with explaining the network simplification techniques including mesh analysis, node analysis and source shifting. Then the book explains the various network theorems and concept of duality. The book also covers the solution of first and second order networks in time domain. The sinusoidal steady state analysis of electrical circuits is also explained in the book. The book incorporates the discussion of coupled circuits and dot conventions. The Laplace transform plays an important role in the network analysis. The chapter on Laplace transform includes properties of Laplace transform and its application in the network analysis. The book includes the discussion of network functions of one and two port networks. The book incorporates the detailed discussion of resonant circuits. The book covers the various aspects of two port network parameters along with the conditions of symmetry and reciprocity. It also derives the interrelationships between the two port network parameters. The book uses plain and lucid language to explain each topic. Each chapter gives the conceptual knowledge about the topic dividing it in various sections and subsections. 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. The book explains the philosophy of the subject which makes the

understanding of the subject very clear and makes the subject more interesting.

Basic Electronics Advanced Computer and Communication Engineering Technology

The book provides comprehensive coverage of the hardware and software aspects of the 8085 microprocessor. It also introduces advanced processors from Intel family, SUN SPARC microprocessor and ARM Processor. The book teaches you the 8085 architecture, instruction set, machine cycles and timing diagrams, Assembly Language Programming (ALP), Interrupts, interfacing 8085 with support chips, memory and peripheral ICs - 8255 and 8259. The book explains the features, architecture, memory addressing, operating modes, addressing modes of Intel 8086, 80286, 80386 microprocessors, segmentation, paging and protection mechanism provided by 80386 microprocessor and the features of 80486 and Pentium Processors. It also explains the architecture of SUN SPARC microprocessor and ARM Processor.

Electronic Circuits-I PHI Learning Pvt. Ltd.

One of the most comprehensive books in the field, this import from TATA McGraw-Hill rigorously covers the latest developments in medical imaging systems, gamma camera, PET camera, SPECT camera and lithotripsy technology. Written for working engineers, technicians, and graduate students, the book includes of hundreds of images as well as detailed working instructions for the newest and more popular instruments used by biomedical engineers today.

Analog Electronics—GATE, PSUS AND ES Examination MIT Press

Fundamentals of Microelectronics, 2nd Edition is designed to build a strong foundation in both design and analysis of electronic circuits this text offers conceptual

understanding and mastery of the material by using modern examples to motivate and prepare readers for advanced courses and their careers. The books unique problem-solving framework enables readers to deconstruct complex problems into components that they are familiar with which builds the confidence and intuitive skills needed for success.

Electrical Machines - I Technical Publications

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.

TRANSDUCERS ENGINEERING Elsevier

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

Digital Electronics John Wiley & Sons

Number Systems and CodesPhilosophy of number systems - complement representation of negative numbers - binary arithmetic - binary codes - error detecting and error correcting codes - hamming codes.Boolean Algebra and Switching FunctionsFundamental postulates of Boolean Algebra-Basic theorems and properties - switching functions - Canonical and Standard forms - Algebraic simplification - digital logic gates, properties of XOR gates - universal gates - Multilevel NAND/NOR realizations.Minimization of Switching FunctionsMap method, Prime implicants, Don't care combinations, Minimal SOP and POS forms, Tabular Method, Prime - Implicant chart, simplification rules.Combinational Logic DesignDesign using conventional logic gates, Encoder, Decoder, Multiplexer, De-Multiplexer, Modular design IC chips, MUX Realization of switching functions Parity bit generator, Code-converters, Hazards and hazard free realizations.Programmable Logic Devices, Threshold LogicBasic PLD's-ROM, PROM, PLA, PLD Realization of Switching functions using PLD's. Capabilities and limitations of Threshold gate, Synthesis of Threshold functions, Multigate Synthesis.Sequential Circuits - IClassification of sequential

circuits (Synchronous, Asynchronous, Pulse mode, Level mode with examples) Basic flop-flops-Triggering and excitation tables. Steps in synchronous sequential circuit design. Design of modulo-N Ring and shift counters, Serial binary adder, sequence detector.Sequential Circuits - IIFinite state machine-capabilities and limitations, Mealy and Moore models-minimization of completely specified and incompletely specified sequential machines, Partition techniques and Merger chart methods-concept of minimal cover table.Algorithmic State MachinesSalient features of the ASM chart-Simple examples-System design using data path and control subsystems-control implementations-examples of Weighing machine and Binary multiplier.

PULSE AND DIGITAL CIRCUITS Vikas Publishing House

Advanced Computer and Communication Engineering TechnologySpringer

Fundamentals of Microelectronics McGraw-Hill Science, Engineering & Mathematics

The innovation in space technologies has generated a new method for observing and monitoring tsunamis from space. Most tsunami remote sensing studies focus on using classical image processing tools or conventional edge detection procedures. However, these methods do not use modern physics, applied mathematics, signal communication, remote sensing data and innovative space technologies. This book equips readers to understand how to monitor tsunamis from space with remote sensing technology art to create a better alarm warning system.

Technical Publications

The importance of measuring instruments and transducers is well known in the various engineering fields. The book provides comprehensive coverage of various electrical and

electronic measuring instruments, transducers, data acquisition system, storage and display devices . The book starts with explaining the theory of measurement including characteristics of instruments, classification, standards, statistical analysis and limiting errors. Then the book explains the various electrical and electronic instruments such as PMMC, moving iron, electrodynamometer type, energy meter, wattmeter, digital voltmeters and multimeters. It also includes the discussion of various magnetic measurements, instrument transformers, power factor meters, frequency meters, phase meters and synchros. The book further explains d.c. and a.c. potentiometers and their applications. The book teaches various d.c. and a.c. bridges along with necessary derivations and phasor diagrams. The book incorporates the various storage and display devices such as, recorders. plotters, printers, oscilloscopes, LED, LCDs and dot matrix displays. The chapter on transducers is dedicated to the detailed discussion of various types of transducers such as resistive, capacitive, strain gauges, RTD, thermistors, inductive, LVDT, thermocouples, piezoelectric, photoelectric and digital transducers. It also adds the discussion of optical fiber sensors. The book also includes good coverage of data acquisition system, data loggers, DACs and ADCs. Each chapter starts with the background of the topic. Then it gives the conceptual knowledge about the topic dividing it in various sections and subsections. Each chapter provides the detailed explanation of the topic, practical examples and variety of solved problems. The book

explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Analog Communication CRC Press

The primary objective of this book is to cover different types of transducers starting from their fundamentals to various applications. It will also guide students to select the suitable type of transducer for a desired application based on their performance characteristics. To provide maximum topical coverage, the contents are carefully covered by considering the curriculum and syllabi of almost all universities throughout India. Every chapter starts with a brief introduction and ends with a detailed summary. At the end of chapters, good number of solved problems (wherever necessary) are also elaborately discussed in this book. Besides this, the book is profusely illustrated with schematic diagrams. This student-friendly approach will definitely be helpful for the students to learn and realize the topics in a comprehensible manner. The book with incisive explanations and all the pedagogic attributes is designed to serve the needs of the undergraduate students of Applied Electronics and Instrumentation Engineering, Instrumentation and Control Engineering, Electrical and Electronics Engineering and Electronics and Telecommunication Engineering.

A Textbook of Strength of Materials Technical

Publications

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 π 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.

Biomedical Instrumentation:

Technology and Applications
Technical Publications
Basic definition, Ideal and practical voltage and current sources, Dependent and independent voltage and current sources, Linear, Unilateral, Bilateral networks.Loop and Node Analysis (DC and AC).Network Theorems(AC and DC) (Including controlled sources) Superposition, Thevenin's and Norton's and Maximum power theorem, Principle of duality.Transistor at Low Frequencies Analysis of an amplifier using h-parameters Ai, Ri Av, Avs, Ais, Ro, CE, CB, CC configurations, Miller's theorem, Miller's Dual theorem.Transistor at High FrequenciesCE hybrid P-model, Significance, CE short circuit current gain and current gain with resistive load.Cascade ConfigurationsCE-CE, CE-CB, CE-CC, CC-CC (Darlington pair), Bootstrapping, Emitter coupled differential amplifier (DC analysis and AC analysis for Ad, AC and CMRR using h-parameters), Square wave testing.Large signal amplifierClass A - Direct coupled, Transformer coupled, Class A push-pull, Harmonic distortion.FET BiasingJFET and MOSFET biasing (Q point). Low frequency analysis CS configurations.Feedback AmplifierClassification, Block diagram of general feedback concept (Negative), Relation between AF and A, Block diagram of A feedback amplifier topologies, General characteristics and advantages of negative feedback amplifier.

OscillatorBarkhausain criterion, Phase shift oscillator, Wien bridge oscillator, Collpits oscillator, Hartley oscillator, Clapp oscillator (no derivations).Voltage RegulatorsPerformance parameters of regulators; Zener shunt, Transistor shunt, Emitter follower type series regulator and controlled transistor regulators. (Analysis of Sv and Ro).Protection CircuitsShort-circuit protection, Current limiting and foldback current limiting.IC RegulatorsBlock diagram of 3 PIN IC regulators, LM317, 340 for fixed voltage, Adjustable output and current regulator IC 723 for low voltage and high voltage as well as current boosting.SMPS and UPS (Block diagram and working only).

Electronic Measurements and Instrumentation

Technical Publications

Electronics – From Theory Into Practice deals with design procedures in electronics and bridges the gap between theoretical knowledge and practice. It provides design examples and discusses the use of the Laplace Transform for solving engineering problems. The book introduces bipolar and field effect transistor, the unijunction transistor and the silicon-controlled rectifier, and shows how data sheets are used in design calculations. It then examines the development of integrated circuits and their characteristics. Following this discussion are chapters that contain a brief treatment of theory limited to the extraction of

necessary design relationships. The book concludes by considering the general aspects of electronic engineering practice. This book will be of use to practising engineers, particularly those trained in other disciplines, who are taking on a certain amount of electronic design.

Network Synthesis and Filter Design Technical Publications Communication / Pulse Modulation Block schematic of Communication System, Base Band Signals and their bandwidth requirements, RF Bands, Types and Communication Channels (Transmission Lines, Parallel Wires, Co-axial Cables, Waveguides and Optical Fiber). Necessity of Modulation, Types of Modulation : AM, FM, PM and Pulse Modulation.Block schematic of PAM, PWM, PPM. Multiplexing : TDM, FDM.Amplitude Modulation Mathematical treatment and expression for AM, Frequency Spectrum, Modulation Index, Power Relation as applied to Sinusoidal Signals, Representation of AM wave, Mathematical treatment as applied to general signals in Communication, Generation of AM using non-linear property.Types of AM TransmittersDSB-FC, DSB-SC, SSB, ISB & VSB, their generation methods and Comparison in terms of Bandwidth and Transmission Power requirements & Complexity (Block diagram treatment only)Angle ModulationMathematical analysis of FM and PM using Sinusoidal Signals, Frequency spectrum, Mathematical treatment as applied to general non-sinusoidal Signals, Modulation index, Bandwidth requirements (all three relations). Narrowband and Wideband FM, Comparison of FM and PM, Direct and Indirect methods of FM generation, Need for Pre-emphasis, Comparison of AM and FM.AM & FM Receivers Block diagram of AM and FM receivers, Superheterodyne Receiver,

Performance characteristics : Sensitivity, Selectivity, Fidelity, Image Frequency Rejection, IFRR, Tracking, De-emphasis, Mixers.AM DetectionEnvelope detection, Synchronous detection, Practical diode detection, AGC. SSB and DSB detection methods.FM DetectionPhase discriminatior and Ratio Detector, Mathematical analysis of FM Detection.Noise Sources of Noise, Types of Noise, White Noise, SNR, Noise Figure, Noise Temperature, Friis formula for Noise Figure, Noise Bandwidth, Performance of AM (DSB, SSB & VSB) and FM in presence of Noise : Mathematical treatmentRadiation and Propagation Concept of Radiation, Basic Antenna System (Dipole), Antenna parameters, Yagi Antenna. Mechanism of Propagation : Ground Wave, Sky Wave, Space Wave, Duct, Tropospheric Scatter and Extraterrestrial Propagation. Concept of Fading and diversity reception.

Microprocessor and Interfacing Technical Publications

Part of the McGraw-Hill Core Concepts Series, Microwave Engineering thoroughly covers the basic principles, analysis, design and measurement techniques necessary for an introductory undergraduate or graduate course in microwave engineering. This is a concise less expensive alternative. This series is edited by Dick Dorf.

SMART Automatics and Energy PHI Learning Pvt. Ltd.

The book is written for an undergraduate course on the Modern Control Systems. It provides comprehensive explanation of state variable analysis of linear control systems and analysis of nonlinear control systems. Each chapter starts with the background of the topic. Then it gives the conceptual knowledge about the topic dividing it in various sections and

subsections. Each chapter provides the detailed explanation of the topic, practical examples and variety of solved problems. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting. The book starts with explaining the concept of state variable and state model of linear control systems. Then it explains how to obtain the state models of various types of systems using phase variables, canonical variables, Jordan's canonical form and cascade programming. Then the book includes good coverage of the matrix algebra including eigen values, eigen vectors, modal matrix and diagonalization. It also includes the derivation of transfer function of the system from its state model. The book further explains the solution of state equations including the concept of state transition matrix. It also includes the various methods of obtaining the state transition matrix such as Laplace transform method, Power series method, Cayley Hamilton method and Similarity transformation method. It further includes the detailed discussion of controllability and observability of systems. It also provides the discussion of pole placement technique of system design. The book teaches various types of nonlinearities and the nonlinear systems. The book covers the fundamental knowledge of analysis of nonlinear systems using phase plane method, isocline

method and delta method. Finally, it explains stability analysis of nonlinear systems and Liapunov's stability analysis.

Techno-Societal 2018 Laxmi Publications

This book, divided in two volumes, originates from Techno-Societal 2018: the 2nd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus is on technologies that help develop and improve society, in particular on issues such as the betterment of differently abled people, environment impact, livelihood, rural employment, agriculture, healthcare, energy, transport, sanitation, water, education. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels.

Electronics – From Theory Into Practice Technical Publications

The book is written for an undergraduate course on the transmission lines and waveguides. It provides comprehensive coverage of four terminal networks, filters, transmission lines and various types of waveguides. The book starts with explaining the symmetrical and asymmetrical four terminal networks which form the basis of filters. Then book provides the

detailed discussion of various types of filters. The discussion of composite filters and crystal filter is also included in the book. The book covers the transmission line parameters in detail along with reflection on a line, reflection loss and reflection factor. The chapter on transmission line at radio frequency includes parameters of line at high frequency, standing waves, standing wave ratio, single stub matching, double stub matching and Smith chart. The book covers the various aspects of guided waves between parallel planes. It also provides the discussion of rectangular and circular waveguides. At the end book incorporates the discussion of resonators. Each chapter provides the detailed explanation of the topic, practical examples and variety of solved problems. The explanations are given using very simple and lucid language. All the chapters are arranged in a specific sequence which helps to build the understanding of the subject in a logical fashion. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Transmission Lines & Waveguides McGraw Hill Professional

An introduction to the engineering principles of embedded systems, with a focus on modeling, design, and analysis of cyber-physical systems. The most visible use of computers and software is processing information for human consumption. The vast majority of computers in use, however, are much less visible.

They run the engine, brakes, seatbelts, airbag, and audio system in your car. They digitally encode your voice and construct a radio signal to send it from your cell phone to a base station. They command robots on a factory floor, power generation in a power plant, processes in a chemical plant, and traffic lights in a city. These less visible computers are called embedded systems, and the software they run is called embedded software. The principal challenges in designing and analyzing embedded systems stem from their interaction with physical processes. This book takes a cyber-physical approach to embedded systems, introducing the engineering concepts underlying embedded systems as a technology and as a subject of study. The focus is on modeling, design, and analysis of cyber-physical systems, which integrate computation, networking, and physical processes. The second edition offers two new chapters, several new exercises, and other improvements. The book can be used as a textbook at the advanced undergraduate or introductory graduate level and as a professional reference for practicing engineers and computer scientists. Readers should have some familiarity with machine structures, computer programming, basic discrete mathematics and algorithms, and signals and systems.