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Communication Systems and Techniques-Mischa Schwartz 1995-11-22 An introductory, graduate-level look at modern communications in general and radio communications in particular. This seminal presentation of the applications of communication theory to signal and receiver design brings you valuable insights into the fundamental concepts underlying today's communications systems, especially wireless communications. Coverage includes: AM, FM Phase Modulation, PCM, fading, and diversity receivers. This is a classic reissue of a book published by McGraw Hill in 1966.
Discrete-Time Signal Processing-Oppenheim 1999
Distributed Operating Systems-Pradeep K. Sinha 1997 Distributed Operating Systems will provide engineers, educators, and researchers with an in-depth understanding of the full range of distributed operating systems components. Each chapter addresses de-facto standards, popular technologies, and design principles applicable to a wide variety of systems. Complete with chapter summaries, end-of-chapter exercises and bibliographies, Distributed Operating Systems concludes with a set of case studies that provide real-world insights into four distributed operating systems.
Signals and Systems, 2e-P Ramakrishna Rao, Shankar Prakriya 2014 The text is designed for the undergraduate student of Electronics and Communication Engineering as the first introduction to Signals, their behaviour and representations, and System responses. The content has been carefully sequenced to help students make a smooth transition to the understanding of Signals by introducing the previously learnt concepts of Laplace and Z Transforms (in mathematics) early in the discussions in this text. With numerous pedagogical features and MATLAB examples, the book will aid the student in understanding the practicality of the subject better.?
Analog And Digital Communication-Dr.J.S.Chitode 2009
The Scientist and Engineer's Guide to Digital Signal Processing-Steven W. Smith 1999
Error-Correction Coding and Decoding-Martin Tomlinson 2017-02-21 This book discusses both the theory and practical applications of self-correcting data, commonly known as error-correcting codes. The applications included demonstrate the importance of these codes in a wide range of everyday technologies, from smartphones to secure communications and transactions. Written in a readily understandable style, the book presents the authors’ twenty-five years of research organized into five parts: Part I is concerned with the theoretical performance attainable by using error correcting codes to achieve communications efficiency in digital communications systems. Part II explores the construction of error-correcting codes and explains the different families of codes and how they are designed. Techniques are described for producing the very best codes. Part III addresses the analysis of low-density parity-check (LDPC) codes, primarily to calculate their stopping sets and low-weight codeword spectrum which determines the performance of th ese codes. Part IV deals with decoders designed to realize optimum performance. Part V describes applications which include combined error correction and detection, public key cryptography using Goppa codes, correcting errors in passwords and watermarking. This book is a valuable resource for anyone interested in error-correcting codes and their applications, ranging from non-experts to professionals at the forefront of research in their field. This book is open access under a CC BY 4.0 license.
Internet-of-Things (IoT) Systems-Dimitrios Serpanos 2017-11-24 This book covers essential topics in the architecture and design of Internet of Things (IoT) systems. The authors provide state-of-the-art information that enables readers to design systems that balance functionality, bandwidth, and power consumption, while providing secure and safe operation in the face of a wide range of threat and fault models. Coverage includes essential topics in system modeling, edge/cloud architectures, and security and safety, including cyberphysical systems and industrial control systems.
Digital Signal Processing-S. Salivahanan 2001
Digital Signal Processing-J.S.Chitode 2009 Signals and SystemsBasic elements of digital signal processing, Concept of frequency in continuous time and discrete time signals, Sampling theorem, Discrete time signals. Discrete time systems, Analysis of linear time invariant systems, z-transform, Convolution and correlation.Fast Fourier TransformsIntroduction to DFT, Efficient computation of DFT, Properties of DFT, FFT algorithms, Radix-2 and Radix-4 FFT algorithms, Decimation in time, Decimation in frequency algorithms, Use of FFT algorithms in linear filtering and correlation.IIR Filter DesignStructure of IIR, System design of discrete of time IIR filter from continuous time filter, IIR filter design by impulse invariance, Bilinear transformation, Approximation derivatives, Design of IIR filter in the frequency domain.FIR Filter DesignSymmetric and antisymmteric FIR filters, Linear phase filter, Windowing technique, Rectangular, Kaiser windows, Frequency sampling techniques, Structure for FIR systems.Finite Wordlength EffectsQuantization noise, Derivation for quantization noise power, Fixed point and binary floating point number representation, Comparison, Overflow error, Truncation error, Co-efficient quantization error, Limit cycle oscillation, Signal scaling, Analytical model of sample and hold operations, Application of DSP, Model of speech waveform, Vocoder.
Analog Circuit Design-Bob Dobkin 2011-09-26 Analog circuit and system design today is more essential than ever before. With the growth of digital systems, wireless communications, complex industrial and automotive systems, designers are challenged to develop sophisticated analog solutions. This comprehensive source book of circuit design solutions will aid systems designers with elegant and practical design techniques that focus on common circuit design challenges. The book’s in-depth application examples provide insight into circuit design and application solutions that you can apply in today’s demanding designs. Covers the fundamentals of linear/analog circuit and system design to guide engineers with their design challenges Based on the Application Notes of Linear Technology, the foremost designer of high performance analog products, readers will gain practical insights into design techniques and practice Broad range of topics, including power management tutorials, switching regulator design, linear regulator design, data conversion, signal conditioning, and high frequency/RF design Contributors include the leading lights in analog design, Robert Dobkin, Jim Williams and Carl Nelson, among others
Control Systems-V.U.Bakshi U.A.Bakshi 2007 Modeling of systemsDefinition fo control systems, open loop and closed loop systems. Types of feedback. Modeling of electrical, mechanical and electro mechanical systems, differential equations of physical system.Block Diagrams and Signal Flow GraphsTransfer function block diagram representation and reduction, signal flow graph representation and reduction using Mason's gain formula.Time Response of Feed Back Control SystemsStandard test signals, steady state error analysis, unit step response of first and second order systems, time domain specifications and transient response of a prototype second order system.Stability AnalysisBounded input and bounded output stability, zero input and asymptoic stability, methods of determining stability, Routh-Hurwitz criterion.Root-Locus TechniquesBasic properties and construction.Frequency Domain AnalysisPolar plots, Bode plots, Gain and phase cross over points, frequency domain specifications-resonant peak, resonant frequency and bandwidth. Effect of adding a zero or pole to the forward path transfer function. Nyquist stability criterion, relative stability using polar plot and Bode plot.
Network Analysis And Synthesis-J.S.Chitode Dr.R.M.Jalnekar 2009-01-01 Signals and WaveformsSignals analysis, Complex frequency, Characteristics of signals, Step, Ramp and Impulse functions. Elementary time function representation of waveforms.Applications of Laplace TransformsReview of Laplace Transforms for solving differential equations, Application of Laplace transforms in network analysis, Convolution, Definition of system function, impulse response. Pole and zero diagrams, Transformed circuit analysis of networks including ladder networks and two port networks etc, two port parameters Modified system function with incidental dissipation. Amplitude and phase response, Bode plots, Effect of poles and zeroes on system behaviour. All Pass Filters, Elements of realizability theory, Hurwitz polinomials, Positive Real Functions.Network TopologyNetwork graphs, Cutset matrix, Fundamental cutset matrix and tieset matrix. Solution of networks using network graphs.Synthesis of One Port NetworksProperties of RC, RL and LC driving point functions and their synthesis in Foster and Cauer forms. Synthesis of RLC driving point functions in terms of partial fraction or continued fractions for simple DP functions. Synthesis of Transfer FunctionsProperties of transfer-function, zeroes of transmission, synthesis of Y21 and Z21 with 1 ohms termination. Synthesis of voltage transfer functions using constant resistance networks.Filter Design - IButterworth and Chebyshev approximation : Derivation of normalised lowpass filter transfer function upto 3rd order by Butterworth approximation from basic principles. Evaluation of transfer function for chebyshev filter from pole zero plot. Synthesis of above mentioned filters with 1 ohms termination. Frequency transformation to high-pass, band pass, and band-elimination from normalised low-pass filters, frequency scaling and Impedance scaling.Filter Design - IIFactored forms of the functions, Cascade approach, Biquad topologies : Positive feedback topology,Coefficient matching techniques for obtaining element values. Positive feedback biquad circuits : Sallen and Key low-pass circuits . RC to CR transformation for high pass filter design. Definition of sensitivities, Sensitivity analysis of the above circuits with respect to parameters like Q, Wo and component values.Effect of practical OP-AMP characteristics on active filter performance : Dynamic range, slew rate, offset voltage and currents, Noise.
Principles of Geographical Information Systems-Peter A. Burrough 2015 Geographical data are used in so many aspects of our lives today, from disaster relief operations to finding directions on our cellphones. Geographical Information Systems (GIS) are the software tools that turn raw data into useful information that can help us understand our world better.Principles of Geographical Information Systems presents a strong theoretical basis for GIS-often lacking in other texts-and an account of its practice. Through real-world examples, this text clearly explains the importance of spatial data and the information systems based upon them in solving arange of practical problems.
Automotive Systems Engineering-Markus Maurer 2013-05-22 This book reflects the shift in design paradigm in automobile industry. It presents future innovations, often referred as “automotive systems engineering”. These cause fundamental innovations in the field of driver assistance systems and electro-mobility as well as fundamental changes in the architecture of the vehicles. New driving functionalities can only be realized if the software programs of multiple electronic control units work together correctly. This volume presents the new and innovative methods which are mandatory to master the complexity of the vehicle of the future.
Real-Time Concepts for Embedded Systems-Qing Li 2003-01-04 '... a very good balance between the theory and practice of real-time embedded system designs.' —Jun-ichiro itojun Hagino, Ph.D., Research Laboratory, Internet Initiative Japan Inc., IETF IPv6 Operations Working Group (v6ops) co-chair 'A cl
Signals and Systems-Alan V. Oppenheim 1997 This comprehensive exploration of signals and systems develops continuous-time and discrete-time concepts/methods in parallel, highlighting the similarities and differences, and features introductory treatments of the applications of these basic methods in such areas as filtering, communication, sampling, discrete-time processing of continuous-time signals, and feedback. Relatively self-contained, the text assumes no prior experience with system analysis, convolution, Fourier analysis, or Laplace and z-transforms. This edition includes a companion book of MATLAB-based computer exercises for each topic in the text. Material on Fourier analysis has been reorganized significantly to provide an easier path for the student to master and appreciate the importance of this topic. Frequency-domain filtering is now introduced very early in the development to provide a central and concrete illustration of why this topic is important and to provide some intuition with a minimal amount of mathematical preliminaries.
CMOS: MIXED-SIGNAL CIRCUIT DESIGN-R. Jacob Baker 2008-06-01 Special Features: · Written by the author of the best-seller, CMOS: Circuit Design, Layout, and Simulation· Fills a hole in the technical literature for an advanced-tutorial book on mixed-signal circuit design from a circuit designer's point of view· Presents more advance topics, and will be an excellent companion to the first volume About The Book: This book will fill a hole in the technical literature for an advanced-tutorial book on mixed-signal circuit design. There are no competitors in this area. Mixed-signal design is performed in industry by a select few gurus . The techniques can be found in hard-to-digest technical papers.
Digital Electronics and Design with VHDL-Volnei A. Pedroni 2008-01-25 Digital Electronics and Design with VHDL offers a friendly presentation of the fundamental principles and practices of modern digital design. Unlike any other book in this field, transistor-level implementations are also included, which allow the readers to gain a solid understanding of a circuit's real potential and limitations, and to develop a realistic perspective on the practical design of actual integrated circuits. Coverage includes the largest selection available of digital circuits in all categories (combinational, sequential, logical, or arithmetic); and detailed digital design techniques, with a thorough discussion on state-machine modeling for the analysis and design of complex sequential systems. Key technologies used in modern circuits are also described, including Bipolar, MOS, ROM/RAM, and CPLD/FPGA chips, as well as codes and techniques used in data storage and transmission. Designs are illustrated by means of complete, realistic applications using VHDL, where the complete code, comments, and simulation results are included. This text is ideal for courses in Digital Design, Digital Logic, Digital Electronics, VLSI, and VHDL; and industry practitioners in digital electronics. Comprehensive coverage of fundamental digital concepts and principles, as well as complete, realistic, industry-standard designs Many circuits shown with internal details at the transistor-level, as in real integrated circuits Actual technologies used in state-of-the-art digital circuits presented in conjunction with fundamental concepts and principles Six chapters dedicated to VHDL-based techniques, with all VHDL-based designs synthesized onto CPLD/FPGA chips
Software Testing and Quality Assurance-Kshirasagar Naik 2011-09-23 A superior primer on software testing and quality assurance, from integration to execution and automation This important new work fills the pressing need for a user-friendly text that aims to provide software engineers, software quality professionals, software developers, and students with the fundamental developments in testing theory and common testing practices. Software Testing and Quality Assurance: Theory and Practice equips readers with a solid understanding of: Practices that support the production of quality software Software testing techniques Life-cycle models for requirements, defects, test cases, and test results Process models for units, integration, system, and acceptance testing How to build test teams, including recruiting and retaining test engineers Quality Models, Capability Maturity Model, Testing Maturity Model, and Test Process Improvement Model Expertly balancing theory with practice, and complemented with an abundance of pedagogical tools, including test questions, examples, teaching suggestions, and chapter summaries, this book is a valuable, self-contained tool for professionals and an ideal introductory text for courses in software testing, quality assurance, and software engineering.
Logic Design-D.A.Godse A.P.Godse 2009 Principles of Combinational Logic - 1Definition of combinational logic, Canonical forms, Generation of switching equations from truth tables, Karnaugh maps-3, 4 and 5 variables, Incompletely specified functions (Don't care terms), Simplifying max term equations.Principles of Combinational Logic - 2Quine-McCluskey minimization technique - Quine-McCluskey using don't care terms, Reduced prime implicant tables, Map entered variables.Analysis and Design of Combinational Logic - I General approach, Decoders-BCD decoders, Encoders.Analysis and Design of Combinational Logic - IIDigital multiplexers - Using multiplexers as Boolean function generators, Adders and subtractors - Cascading full adders, Look ahead carry, Binary comparators. Sequential Circuits - 1Basic bistable element, Latches, SR latch, Application of SR latch, A switch debouncer, The latch, The gated SR latch, The gated D latch, The master-slave flip-flops (Pulse-triggered flip-flops) : The master-slave SR flip-flops, The master-slave JK flip-flop, Edge triggered flip-flop : The positive edge-triggered D flip-flop, Negative-edge triggered D flip-flop.Sequential Circuits - 2Characteristic equations, Registers, Counters - Binary ripple counters, Synchronous binary counters, Counters based on shift registers, Design of a synchronous counters, Design of a synchronous Mod-6 counter using clocked JK flip-flops, Design of a synchronous Mod-6 counter using clocked D, T or SR flip-flops.Sequential Design - IIntroduction, Mealy and Moore models, State machine notation, Synchronous sequential circuit analysis.Sequential Design - IIConstruction of state diagrams, counter design.Lab Experiments
Introduction to Embedded Systems - A Cyber Physical Systems Approach - Second Edition-Edward Ashford Lee 2014-08-15 This book strives to identify and introduce the durable intellectual ideas of embedded systems as a technology and as a subject of study. The emphasis is on modeling, design, and analysis of cyber-physical systems, which integrate computing, networking, and physical processes.
Distributed Computing-Ajay D. Kshemkalyani 2011-03-03 Designing distributed computing systems is a complex process requiring a solid understanding of the design problems and the theoretical and practical aspects of their solutions. This comprehensive textbook covers the fundamental principles and models underlying the theory, algorithms and systems aspects of distributed computing. Broad and detailed coverage of the theory is balanced with practical systems-related issues such as mutual exclusion, deadlock detection, authentication, and failure recovery. Algorithms are carefully selected, lucidly presented, and described without complex proofs. Simple explanations and illustrations are used to elucidate the algorithms. Important emerging topics such as peer-to-peer networks and network security are also considered. With vital algorithms, numerous illustrations, examples and homework problems, this textbook is suitable for advanced undergraduate and graduate students of electrical and computer engineering and computer science. Practitioners in data networking and sensor networks will also find this a valuable resource. Additional resources are available online at www.cambridge.org/9780521876346.
Control System Engineering-U.A.Bakshi 2008 Control System Analysis Examples of control systems, Open loop control systems, Closed loop control systems. Transfer function. Types of feedback and feedback control system characteristics - Noise rejection; Gain, Sensitivity, Stability. Mathematical Modeling of Systems Importance of a mathematical model, Block diagrams, Signal flow graphs, Masan's gain formula and its application to block diagram reduction. State space method, Solving time-invariant system,Transfer matrix. Transient and Steady State - Response Analysis Impulse response function, First order system, Second order system, Time domain specifications of systems, Analysis of transient-response using second order model.Classification of control systems according to Type of systems, Steady - state errors, Static error constants, Steady - state analysis of different types of systems using step, ramp and parabolic input signals. Stability Analysis Concept of stability, Stability analysis using Routh's stability criterion, Absolute stability, Relative stability, Root-Locus plots, Summary of general rules for constructing Root-Locus, Root-Locus analysis of control systems. Compensation techniques-Log, lead, log-lead. Frequency-Response Analysis Frequency domain specifications, Resonance peak and peak resonating frequency, Relationship between time and frequency domain specification of systems. Bode plots, Polar plots, Log-magnitude Vs phase plots, Nyquist stability criterion, Stability analysis, Relative stability, Gain margin, Phase margin, Stability analysis of system using Bode plots. Closed-loop frequency response-Constant gain and phase loci, Nichol's chart and their use in stability study of systems. Control Components and Controller D.C. and A.C. servomotors, Servoamplifier, Potentiometer, Synchro transmitters, Synchro receivers, Synchro control transformer, Stepper motors. Discontinuous controller modes, Continuous controller modes, Composite controllers.
Fundamentals of Wireless Sensor Networks-Waltenegus Dargie 2010-11-05 In this book, the authors describe the fundamental concepts and practical aspects of wireless sensor networks. The book provides a comprehensive view to this rapidly evolving field, including its many novel applications, ranging from protecting civil infrastructure to pervasive health monitoring. Using detailed examples and illustrations, this book provides an inside track on the current state of the technology. The book is divided into three parts. In Part I, several node architectures, applications and operating systems are discussed. In Part II, the basic architectural frameworks, including the key building blocks required for constructing large-scale, energy-efficient sensor networks are presented. In Part III, the challenges and approaches pertaining to local and global management strategies are presented – this includes topics on power management, sensor node localization, time synchronization, and security. At the end of each chapter, the authors provide practical exercises to help students strengthen their grip on the subject. There are more than 200 exercises altogether. Key Features: Offers a comprehensive introduction to the theoretical and practical concepts pertaining to wireless sensor networks Explains the constraints and challenges of wireless sensor network design; and discusses the most promising solutions Provides an in-depth treatment of the most critical technologies for sensor network communications, power management, security, and programming Reviews the latest research results in sensor network design, and demonstrates how the individual components fit together to build complex sensing systems for a variety of application scenarios Includes an accompanying website containing solutions to exercises (http://www.wiley.com/go/dargie_fundamentals) This book serves as an introductory text to the field of wireless sensor networks at both graduate and advanced undergraduate level, but it will also appeal to researchers and practitioners wishing to learn about sensor network technologies and their application areas, including environmental monitoring, protection of civil infrastructure, health care, precision agriculture, traffic control, and homeland security.
Information and Communication Technology for Intelligent Systems-Suresh Chandra Satapathy 2018-12-14 The book gathers papers addressing state-of-the-art research in all areas of Information and Communication Technologies and their applications in intelligent computing, cloud storage, data mining and software analysis. It presents the outcomes of the third International Conference on Information and Communication Technology for Intelligent Systems, which was held on April 6–7, 2018, in Ahmedabad, India. Divided into two volumes, the book discusses the fundamentals of various data analytics and algorithms, making it a valuable resource for researchers’ future studies.
Essentials of Cloud Computing-K. Chandrasekaran 2014-12-05 Cloud computing-accessing computing resources over the Internet-is rapidly changing the landscape of information technology. Its primary benefits compared to on-premise computing models are reduced costs and increased agility and scalability. Hence, cloud computing is receiving considerable interest among several stakeholders-businesses, the IT ind
Analog Communication-A.P.Godse U.A.Bakshi 2007 Amplitude Modulation Introduction. Amplitude Modulation : Time-domain description, Frequency-domain description, Generation of AM wave : Square law modulator, Switching modulator. Detection of AM waves : Square law detector, Envelope detector. Double sideband suppressed carrier modulation (DSBSC) : Time-domain description. Frequency-domain representation. Generation of DSBSC waves : Balanced modulator, Ring modulator. Coherent detection of DSBSC modulated waves. Costas loop. Quadrature carrier multiplexing. Hilbert transform, Properties of Hilbert transform, Pre-envelope, Canonical representation of bandpass signals, Single sideband modulation, Frequency-domain description of SSB modulated signals, Frequency discrimination method for generating an SSB modulated wave, Time-domain description, Phase discrimination method for generating an SSB modulated wave, Demodulation of SSB wave. Vestigial sideband modulation, Frequency-domain description, Generation of VSB modulated wave, Time-domain description, Envelop detection of VSB wave plus carrier, Comparison of amplitude modulation techniques, Frequency translation, Frequency division multiplexing, Application : Radio broadcasting, AM radio, Television, Color television, High definition television.Angle Modulation Basic definitions, Frequency modulation, Narrow band frequency modulation, Wide band frequency modulation, Transmission bandwidth of FM waves, Generation of FM waves : Indirect FM and direct FM, Demodulation of FM waves, FM stereo multiplexing, Phase-locked loop, Nonlinear model the phase-locked loop. Linear model of phase-locked loop. Nonlinear effects in FM systems.Random Processes Introduction, Probability theory : Relative-frequency approach, Axioms of probability, Conditional probability, Random variables : Several random variables. Statistical averages :Function of random variables, moments. Random process stationarity. Mean, Correlation and Covariance functions : Properties of the autocorrelation function, Cross-correlation functions, Power spectral density : Properties of the spectral density, Gaussian process :Central limit theorem, Properties of Gaussian process. Noise Introduction, Short noise, Thermal noise, White noise, Noise equivalent bandwidth, Narrowband noise, Noise figure, Equivalent noise temperature, Cascade connection of two-port networks.Noise in Continuous Wave Modulation Systems Introduction, Receiver model, Noise in DSB-SC receivers, Noise in SSB receivers, Noise in AM receivers, Threshold effect, Noise in FM receivers, FM threshold effect, Pre-emphasis and De-emphasis in FM, Summary and discussion.
Sensors and Transducers-Ian Sinclair 2000-12-05 In this book Ian Sinclair provides the practical knowhow required by technician engineers, systems designers and students. The focus is firmly on understanding the technologies and their different applications, not a mathematical approach. The result is a highly readable text which provides a unique introduction to the selection and application of sensors, transducers and switches, and a grounding in the practicalities of designing with these devices. The devices covered encompass heat, light and motion, environmental sensing, sensing in industrial control, and signal-carrying and non-signal switches. Get up to speed in this key topic through this leading practical guide Understand the range of technologies and applications before specifying Gain a working knowledge with a minimum of maths
MSP430 Microcontroller Basics-John H. Davies 2008-08-21 The MSP430 microcontroller family offers ultra-low power mixed signal, 16-bit architecture that is perfect for wireless low-power industrial and portable medical applications. This book begins with an overview of embedded systems and microcontrollers followed by a comprehensive in-depth look at the MSP430. The coverage included a tour of the microcontroller's architecture and functionality along with a review of the development environment. Start using the MSP430 armed with a complete understanding of the microcontroller and what you need to get the microcontroller up and running! Details C and assembly language for the MSP430 Companion Web site contains a development kit Full coverage is given to the MSP430 instruction set, and sigma-delta analog-digital converters and timers
Principles of Electronic Communication Systems-Louis E. Frenzel 2003 "Principles of Electronic Communication Systems" is an introductory course in communication electronics for students with a background in basic electronics. The program provides students with the current, state-of-the-art electronics techniques used in all modern forms of electronic communications, including radio, television, telephones, facsimiles, cell phones, satellites, LAN systems, digital transmission, and microwave communications. The text is readable with easy-to-understand line drawings and color photographs. The up-to-date content includes a new chapter on wireless communications systems. Various aspects of troubleshooting are discussed throughout..
SIGNALS AND SYSTEMS-A. ANAND KUMAR 2012-02-04 This comprehensive text on control systems is designed for undergraduate students pursuing courses in electronics and communication engineering, electrical and electronics engineering, telecommunication engineering, electronics and instrumentation engineering, mechanical engineering, and biomedical engineering. Appropriate for self-study, the book will also be useful for AMIE and IETE students. Written in a student-friendly readable manner, the book explains the basic fundamentals and concepts of control systems in a clearly understandable form. It is a balanced survey of theory aimed to provide the students with an in-depth insight into system behaviour and control of continuous-time control systems. All the solved and unsolved problems in this book are classroom tested, designed to illustrate the topics in a clear and thorough way. KEY FEATURES : Includes several fully worked-out examples to help students master the concepts involved. Provides short questions with answers at the end of each chapter to help students prepare for exams confidently. Offers fill in the blanks and objective type questions with answers at the end of each chapter to quiz students on key learning points. Gives chapter-end review questions and problems to assist students in reinforcing their knowledge.
Satellite Communications Systems-Gerard Maral 2020-02-03 The revised and updated sixth edition of em style="mso-bidi-font-style: normal;"Satellite Communications Systems contains information on the most recent advances related to satellite communications systems, technologies, network architectures and new requirements of services and applications. The authors – noted experts on the topic – cover the state-of-the-art satellite communication systems and technologies and examine the relevant topics concerning communication and network technologies, concepts, techniques and algorithms. New to this edition is information on internetworking with the broadband satellite systems, more intensive coverage of Ka band technologies, GEO high throughput satellite (HTS), LEO constellations and the potential to support the current new broadband Internet services as well as future developments for global information infrastructure. The authors offer details on digital communication systems and broadband networks in order to provide high-level researchers and professional engineers an authoritative reference. The companion website provides slides for instructors to teach and for students to learn. In addition, the book is designed in a user-friendly format.
Digital Electronics Practice Using Integrated Circuits-R. P. Jain 2001-05 With the advent of integrated circuit technology, the importance and usefulness of digital electronics has vastly increased. The size, cost and power dissipation have been reduced in the ratio of 2,000:1 and the performance, reliability and efficiency of equipment increased tremendously. This book gives a basic concept of digital techniques and then introduces simple function to complex functions. It uses SSI and MSI, TTL ICs of the most commonly available 54/74 series. The book will be useful to students of electronics and computer technology, as well as to practicing engineers and technicians.
Digital Principles & System Design-A.P.Godse 2009
Mechanisms and Mechanical Devices Sourcebook, Fourth Edition-Neil Sclater 2007 Intended for machinery, mechanism, and device designers; engineers, technicians; and inventors and students, this fourth edition includes a glossary of machine design and kinematics terms; material on robotics; and information on nanotechnology and mechanisms applications.
Digital Electronics (Digital Logic Design)-A.P.Godse 2009
Fundamentals of Multimedia-Ze-Nian Li 2014-04-09 This textbook introduces the “Fundamentals of Multimedia”, addressing real issues commonly faced in the workplace. The essential concepts are explained in a practical way to enable students to apply their existing skills to address problems in multimedia. Fully revised and updated, this new edition now includes coverage of such topics as 3D TV, social networks, high-efficiency video compression and conferencing, wireless and mobile networks, and their attendant technologies. Features: presents an overview of the key concepts in multimedia, including color science; reviews lossless and lossy compression methods for image, video and audio data; examines the demands placed by multimedia communications on wired and wireless networks; discusses the impact of social media and cloud computing on information sharing and on multimedia content search and retrieval; includes study exercises at the end of each chapter; provides supplementary resources for both students and instructors at an associated website.
Control Systems-M. Gopal 2002
Mechanical Vibrations: Theory and Applications-Kelly 2012-07-27 Mechanical Vibrations: Theory and Applications takes an applications-based approach at teaching students to apply previously learned engineering principles while laying a foundation for engineering design. This text provides a brief review of the principles of dynamics so that terminology and notation are consistent and applies these principles to derive mathematical models of dynamic mechanical systems. The methods of application of these principles are consistent with popular Dynamics texts. Numerous pedagogical features have been included in the text in order to aid the student with comprehension and retention. These include the development of three benchmark problems which are revisited in each chapter, creating a coherent chain linking all chapters in the book. Also included are learning outcomes, summaries of key concepts including important equations and formulae, fully solved examples with an emphasis on real world examples, as well as an extensive exercise set including objective-type questions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Eventually, you will extremely discover a new experience and expertise by spending more cash. nevertheless when? pull off you tolerate that you require to get those every needs considering having significantly cash? Why dont you attempt to acquire something basic in the beginning? Thats something that will guide you to comprehend even more in the region of the globe, experience, some places, past history, amusement, and a lot more?

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