

Proakis Digital Communications 5th Edition File Type

Microwave Devices and Circuits
Digital Communications
Fundamentals of Digital Communication
Wireless Infrared Communications
An Introduction to Analog and Digital Communications, 2nd Edition
Digital Signal Processing Using MATLAB
Communication Systems Engineering
Fundamentals of Communication Systems, Global Edition
Principles of LED Light Communications
Wireless Communications
Digital Communications
Standard Aircraft Handbook for Mechanics and Technicians, Seventh Edition
RF Transceiver Design for MIMO Wireless Communications
Fundamentals of Communication Systems
Schaum's Outline of Analog and Digital Communications
Digital Communication for Practicing Engineers
Digital Communications, 5th edition
A First Course in Digital Communications
Fundamentals of Communications Systems
Introduction to Biomedical Engineering Technology, Third Edition
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Codes and turbo codes
Contemporary Communication Systems Using MATLAB
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Software-Defined Radio for

EngineersIntroduction to Communication SystemsTheory and Design of Digital Communication SystemsSynchronization in Digital Communication SystemsAETA 2013: Recent Advances in Electrical Engineering and Related SciencesA Foundation in Digital CommunicationDigital Signal ProcessingPrinciples of Digital Communication

Microwave Devices and Circuits

Based on the popular Artech House classic, Digital Communication Systems Engineering with Software-Defined Radio, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN

toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field.

Digital Communications

Do you need to know how to develop more efficient digital communication systems? Based on the author's experience of over thirty years in industrial design, this practical guide provides detailed coverage of synchronization subsystems and their relationship with other system components. Readers will gain a comprehensive understanding of the techniques needed for the design, performance analysis and implementation of synchronization functions for a range of different modern communication technologies. Specific topics covered include frequency-locked loops in wireless receivers, optimal OFDM timing phase determination and implementation, and interpolation filter design and analysis in digital resamplers. Numerous implementation examples help readers to develop the necessary practical skills, and slides summarizing key concepts accompany the book online. This is an invaluable guide and essential reference for both practicing engineers and graduate students working in digital communications.

Fundamentals of Digital Communication

A concise introduction to the core concepts in digital communication, providing clarity and depth through examples, problems and MATLAB exercises. Its simple structure maps a logical route to understand the most basic principles in digital communication, and also leads students through more in-depth treatment with examples and step-by step instructions.

Wireless Infrared Communications

Wireless technology is a truly revolutionary paradigm shift, enabling multimedia communications between people and devices from any location. It also underpins exciting applications such as sensor networks, smart homes, telemedicine, and automated highways. This book provides a comprehensive introduction to the underlying theory, design techniques and analytical tools of wireless communications, focusing primarily on the core principles of wireless system design. The book begins with an overview of wireless systems and standards. The characteristics of the wireless channel are then described, including their fundamental capacity limits. Various modulation, coding, and signal processing schemes are then discussed in detail, including state-of-the-art adaptive modulation, multicarrier, spread spectrum, and multiple antenna techniques. The concluding chapters deal with multiuser communications, cellular system design, and ad-hoc network design. Design insights and tradeoffs are emphasized throughout the book. It contains many worked examples, over 200 figures, almost

300 homework exercises, over 700 references, and is an ideal textbook for students.

An Introduction to Analog and Digital Communications, 2nd Edition

Digital Communications is a classic book in the area that is designed to be used as a senior or graduate level text. The text is flexible and can easily be used in a one semester course or there is enough depth to cover two semesters. Its comprehensive nature makes it a great book for students to keep for reference in their professional careers. This all-inclusive guide delivers an outstanding introduction to the analysis and design of digital communication systems. Includes expert coverage of new topics: Turbo codes, Turboequalization, Antenna Arrays, Digital Cellular Systems, and Iterative Detection. Convenient, sequential organization begins with a look at the history and classification of channel models and builds from there.

Digital Signal Processing Using MATLAB

Offers concise, practical knowledge on modern communication systems to help students transition smoothly into the workplace and beyond This book presents the

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most relevant concepts and technologies of today's communication systems and presents them in a concise and intuitive manner. It covers advanced topics such as Orthogonal Frequency-Division Multiplexing (OFDM) and Multiple-Input Multiple-Output (MIMO) Technology, which are enabling technologies for modern communication systems such as WiFi (including the latest enhancements) and LTE-Advanced. Following a brief introduction to the field, Digital Communication for Practicing Engineers immerses readers in the theories and technologies that engineers deal with. It starts off with Shannon Theorem and Information Theory, before moving on to basic modules of a communication system, including modulation, statistical detection, channel coding, synchronization, and equalization. The next part of the book discusses advanced topics such as OFDM and MIMO, and introduces several emerging technologies in the context of 5G cellular system radio interface. The book closes by outlining several current research areas in digital communications. In addition, this text: Breaks down the subject into self-contained lectures, which can be read individually or as a whole Focuses on the pros and cons of widely used techniques, while providing references for detailed mathematical analysis Follows the current technology trends, including advanced topics such as OFDM and MIMO Touches on content this is not usually contained in textbooks such as cyclo-stationary symbol timing recovery, adaptive self-interference canceler, and Tomlinson-Harashima precoder Includes many illustrations, homework problems, and examples Digital Communication for Practicing Engineers is an ideal guide for graduate students

and professionals in digital communication looking to understand, work with, and adapt to the current and future technology.

Communication Systems Engineering

Fundamentals of Communication Systems, Global Edition

This is a concise presentation of the concepts underlying the design of digital communication systems, without the detail that can overwhelm students. Many examples, from the basic to the cutting-edge, show how the theory is used in the design of modern systems and the relevance of this theory will motivate students. The theory is supported by practical algorithms so that the student can perform computations and simulations. Leading edge topics in coding and wireless communication make this an ideal text for students taking just one course on the subject. Fundamentals of Digital Communications has coverage of turbo and LDPC codes in sufficient detail and clarity to enable hands-on implementation and performance evaluation, as well as 'just enough' information theory to enable computation of performance benchmarks to compare them against. Other unique features include space-time communication and geometric insights into noncoherent communication and equalization.

Principles of LED Light Communications

Course book introducing advanced control systems for vehicles, including advanced automotive concepts and the next generation of vehicles for ITS.

Wireless Communications

Offering comprehensive, up-to-date coverage on the principles of digital communications, this book focuses on basic issues, relating theory to practice wherever possible. Topics covered include the sampling process, digital modulation techniques and error-control coding.

Digital Communications

Providing the underlying principles of digital communication and the design techniques of real-world systems, this textbook prepares senior undergraduate and graduate students for the engineering practices required in industry. Covering the core concepts, including modulation, demodulation, equalization, and channel coding, it provides step-by-step mathematical derivations to aid understanding of background material. In addition to describing the basic theory, the principles of system and subsystem design are introduced, enabling students to visualize the

intricate connections between subsystems and understand how each aspect of the design supports the overall goal of achieving reliable communications. Throughout the book, theories are linked to practical applications with over 250 real-world examples, whilst 370 varied homework problems in three levels of difficulty enhance and extend the text material. With this textbook, students can understand how digital communication systems operate in the real world, learn how to design subsystems, and evaluate end-to-end performance with ease and confidence.

Standard Aircraft Handbook for Mechanics and Technicians, Seventh Edition

The common principles underlying these and other applications are extracted and presented in a unified framework.

RF Transceiver Design for MIMO Wireless Communications

A comprehensive and detailed treatment of the program SIMULINK® that focuses on SIMULINK® for simulations in Digital and Wireless Communications Modeling of Digital Communication Systems Using SIMULINK® introduces the reader to SIMULINK®, an extension of the widely-used MATLAB modeling tool, and the use of SIMULINK® in modeling and simulating digital communication systems, including

wireless communication systems. Readers will learn to model a wide selection of digital communications techniques and evaluate their performance for many important channel conditions. Modeling of Digital Communication Systems Using SIMULINK® is organized in two parts. The first addresses Simulink® models of digital communications systems using various modulation, coding, channel conditions and receiver processing techniques. The second part provides a collection of examples, including speech coding, interference cancellation, spread spectrum, adaptive signal processing, Kalman filtering and modulation and coding techniques currently implemented in mobile wireless systems. Covers case examples, progressing from basic to complex Provides applications for mobile communications, satellite communications, and fixed wireless systems that reveal the power of SIMULINK modeling Includes access to useable SIMULINK® simulations online All models in the text have been updated to R2018a; only problem sets require updating to the latest release by the user Covering both the use of SIMULINK® in digital communications and the complex aspects of wireless communication systems, Modeling of Digital Communication Systems Using SIMULINK® is a great resource for both practicing engineers and students with MATLAB experience.

Fundamentals of Communication Systems

An accessible undergraduate textbook introducing key fundamental principles

behind modern communication systems, supported by exercises, software problems and lab exercises.

Schaum's Outline of Analog and Digital Communications

This intuitive yet rigorous introduction derives the core results of digital communication from first principles. Theory, rather than industry standards, motivates the engineering approaches, and key results are stated with all the required assumptions. The book emphasizes the geometric view, opening with the inner product, the matched filter for its computation, Parseval's theorem, the sampling theorem as an orthonormal expansion, the isometry between passband signals and their baseband representation, and the spectral-efficiency optimality of quadrature amplitude modulation (QAM). Subsequent chapters address noise, hypothesis testing, Gaussian stochastic processes, and the sufficiency of the matched filter outputs. Uniquely, there is a treatment of white noise without generalized functions, and of the power spectral density without artificial random jitters and random phases in the analysis of QAM. This systematic and insightful book, with over 300 exercises, is ideal for graduate courses in digital communication, and for anyone asking 'why' and not just 'how'.

Digital Communication for Practicing Engineers

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This practical resource offers a thorough examination of RF transceiver design for MIMO communications. Offering a practical view on MIMO wireless systems, this book extends fundamental concepts on classic wireless transceiver design techniques to MIMO transceivers. This helps reader gain a very comprehensive understanding of the subject. This in-depth volume describes many theoretical and implementation challenges on MIMO transceivers and provides the practical solutions for these issues. This comprehensive book provides thorough descriptions of MIMO theoretical concepts, MIMO single carrier and OFDM modulation, RF transceiver design concepts, power amplifier, MIMO transmitter design techniques and their RF impairments, MIMO receiver design methods, RF impairments study including nonlinearity, DC-offset, I/Q imbalance and phase noise and their compensation in OFDM and MIMO techniques. In addition, it provides the most practical techniques to realize RF front-ends in MIMO systems. This book is supported with many design equations and illustrations. The first book dedicated to RF Transceiver design for MIMO systems, this volume serves as a current, one-stop guide offering you cost-effective solutions for your challenging projects in the field.

Digital Communications, 5th edition

This book is devoted to one of the essential functions of modern telecommunications systems: channel coding or error correction coding. Its main topic is iteratively decoded algebraic codes, convolutional codes and concatenated

codes.

A First Course in Digital Communications

Learn to use MATLAB as a useful computing tool for exploring traditional Digital Signal Processing (DSP) topics and solving problems to gain insight. DIGITAL SIGNAL PROCESSING USING MATLAB: A PROBLEM SOLVING COMPANION, 4E greatly expands the range and complexity of problems that learners can effectively study. Since DSP applications are primarily algorithms implemented on a DSP processor or software, they typically require a significant amount of programming. Using interactive software, such as MATLAB, enables readers to focus on mastering new and challenging concepts rather than concentrating on programming algorithms. This edition discusses interesting, practical examples and explores useful problems to provide the groundwork for further study. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Fundamentals of Communications Systems

This book provides a cohesive introduction to much of the vast body of knowledge central to the problems of communication engineering.

Introduction to Biomedical Engineering Technology, Third Edition

Digital Communications

This new edition provides major revisions to a text that is suitable for the introduction to biomedical engineering technology course offered in a number of technical institutes and colleges in Canada and the US. Each chapter has been thoroughly updated with new photos and illustrations which depict the most modern equipment available in medical technology. This third edition includes new problem sets and examples, detailed block diagrams and schematics and new chapters on device technologies and information technology.

Modeling of Digital Communication Systems Using SIMULINK

This supplement to any standard DSP text is one of the first books to successfully integrate the use of MATLAB® in the study of DSP concepts. In this book, MATLAB® is used as a computing tool to explore traditional DSP topics, and solve problems to gain insight. This greatly expands the range and complexity of problems that students can effectively study in the course. Since DSP applications

are primarily algorithms implemented on a DSP processor or software, a fair amount of programming is required. Using interactive software such as MATLAB® makes it possible to place more emphasis on learning new and difficult concepts than on programming algorithms. Interesting practical examples are discussed and useful problems are explored. This updated second edition includes new homework problems and revises the scripts in the book, available functions, and m-files to MATLAB® V7.

Digital Signal Processing Using MATLAB: A Problem Solving Companion

The second edition of this accessible book provides readers with an introductory treatment of communication theory as applied to the transmission of information-bearing signals. While it covers analog communications, the emphasis is placed on digital technology. It begins by presenting the functional blocks that constitute the transmitter and receiver of a communication system. Readers will next learn about electrical noise and then progress to multiplexing and multiple access techniques.

Digital Signal Processing

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 Modulation and Coding

For one- or two-semester, senior-level undergraduate courses in Communication Systems for Electrical and Computer Engineering majors. This text introduces the basic techniques used in modern communication systems and provides fundamental tools and methodologies used in the analysis and design of these

systems. The authors emphasize digital communication systems, including new generations of wireless communication systems, satellite communications, and data transmission networks. A background in calculus, linear algebra, basic electronic circuits, linear system theory, and probability and random variables is assumed.

Automotive Control Systems

The renowned communications theorist Robert Gallager brings his lucid writing style to the study of the fundamental system aspects of digital communication for a one-semester course for graduate students. With the clarity and insight that have characterized his teaching and earlier textbooks, he develops a simple framework and then combines this with careful proofs to help the reader understand modern systems and simplified models in an intuitive yet precise way. A strong narrative and links between theory and practice reinforce this concise, practical presentation. The book begins with data compression for arbitrary sources. Gallager then describes how to modulate the resulting binary data for transmission over wires, cables, optical fibers, and wireless channels. Analysis and intuitive interpretations are developed for channel noise models, followed by coverage of the principles of detection, coding, and decoding. The various concepts covered are brought together in a description of wireless communication, using CDMA as a case study.

Principles of Communication Engineering

Satellite Communications Systems

For one- or two-semester, senior-level undergraduate courses in Communication Systems for Electrical and Computer Engineering majors. This text introduces the basic techniques used in modern communication systems and provides fundamental tools and methodologies used in the analysis and design of these systems. The authors emphasize digital communication systems, including new generations of wireless communication systems, satellite communications, and data transmission networks. A background in calculus, linear algebra, basic electronic circuits, linear system theory, and probability and random variables is assumed.

Codes and turbo codes

The practical, on-the-job aircraft manual--now fully updated For more than 60 years, the Standard Aircraft Handbook for Mechanics and Technicians has been the trusted resource for building, maintaining, overhauling, and repairing aircraft. This illustrated guide provides clear, step-by-step procedures for all essential aircraft

tasks. The Seventh Edition has been thoroughly revised to cover the latest advances in the industry, including composite materials, cutting-edge nondestructive testing, and detection equipment and procedures. New photos, diagrams, tables, and schematics are featured throughout this must-have reference. Coverage includes: Tools and their proper use Materials and fabricating Drilling and countersinking Riveting Bolts and threaded fasteners Aircraft plumbing Control cables Electrical wiring and installation Aircraft drawings Nondestructive testing (NDT) Corrosion detection and control Composite materials

Contemporary Communication Systems Using MATLAB

The clear, easy-to-understand introduction to digital communications Completely updated coverage of today's most critical technologies Step-by-step implementation coverage Trellis-coded modulation, fading channels, Reed-Solomon codes, encryption, and more Exclusive coverage of maximizing performance with advanced "turbo codes" "This is a remarkably comprehensive treatment of the field, covering in considerable detail modulation, coding (both source and channel), encryption, multiple access and spread spectrum. It can serve both as an excellent introduction for the graduate student with some background in probability theory or as a valuable reference for the practicing communication system engineer. For both communities, the treatment is clear and well presented." - Andrew Viterbi, The Viterbi Group Master every key digital

communications technology, concept, and technique. Digital Communications, Second Edition is a thoroughly revised and updated edition of the field's classic, best-selling introduction. With remarkable clarity, Dr. Bernard Sklar introduces every digital communication technology at the heart of today's wireless and Internet revolutions, providing a unified structure and context for understanding them -- all without sacrificing mathematical precision. Sklar begins by introducing the fundamentals of signals, spectra, formatting, and baseband transmission. Next, he presents practical coverage of virtually every contemporary modulation, coding, and signal processing technique, with numeric examples and step-by-step implementation guidance. Coverage includes:

- Signals and processing steps: from information source through transmitter, channel, receiver, and information sink
- Key tradeoffs: signal-to-noise ratios, probability of error, and bandwidth expenditure
- Trellis-coded modulation and Reed-Solomon codes: what's behind the math
- Synchronization and spread spectrum solutions
- Fading channels: causes, effects, and techniques for withstanding fading

The first complete how-to guide to turbo codes: squeezing maximum performance out of digital connections

Implementing encryption with PGP, the de facto industry standard

Whether you're building wireless systems, xDSL, fiber or coax-based services, satellite networks, or Internet infrastructure, Sklar presents the theory and the practical implementation details you need. With nearly 500 illustrations and 300 problems and exercises, there's never been a faster way to master advanced digital communications. CD-ROM INCLUDED The CD-ROM contains a complete educational version of Elanix'

SystemView DSP design software, as well as detailed notes for getting started, a comprehensive DSP tutorial, and over 50 additional communications exercises.

Digital Communications

The demand for wireless access to network services is growing in virtually all communications and computing applications. Once accustomed to unteathered operation, users resent being tied to a desk or a fixed location, but will endure it when there is some substantial benefit, such as higher resolution or bandwidth. Recent technological advances, however, such as the scaling of VLSI, the development of low-power circuit design techniques and architectures, increasing battery energy capacity, and advanced displays, are rapidly improving the capabilities of wireless devices. Many of the technological advances contributing to this revolution pertain to the wireless medium itself. There are two viable media: radio and optical. In radio, spread-spectrum techniques allow different users and services to coexist in the same bandwidth, and new microwave frequencies with plentiful bandwidth become viable as the speed of the supporting low-cost electronics increases. Radio has the advantage of being available ubiquitously indoors and outdoors, with the possibility of a seamless system infrastructure that allows users to move between the two. There are unanswered (but likely to be benign) biological effects of microwave radiation at higher power densities. Optical communications is enhanced by advances in photonic devices, such as

semiconductor lasers and detectors. Optical is primarily an indoor technology - where it need not compete with sunlight - and offers advantages such as the immediate availability of a broad bandwidth without the need for regulatory approval.

Digital Communication

Thorough coverage of basic digital communication system principles ensures that readers are exposed to all basic relevant topics in digital communication system design. The use of CD player and JPEG image coding standard as examples of systems that employ modern communication principles allows readers to relate the theory to practical systems. Over 180 worked-out examples throughout the book aids readers in understanding basic concepts. Over 480 problems involving applications to practical systems such as satellite communications systems, ionospheric channels, and mobile radio channels gives readers ample opportunity to practice the concepts they have just learned. With an emphasis on digital communications, Communication Systems Engineering, Second Edition introduces the basic principles underlying the analysis and design of communication systems. In addition, this book gives a solid introduction to analog communications and a review of important mathematical foundation topics. New material has been added on wireless communication systems—GSM and CDMA/IS-94; turbo codes and iterative decoding; multicarrier (OFDM) systems; multiple antenna systems.

Includes thorough coverage of basic digital communication system principles—including source coding, channel coding, baseband and carrier modulation, channel distortion, channel equalization, synchronization, and wireless communications. Includes basic coverage of analog modulation such as amplitude modulation, phase modulation, and frequency modulation as well as demodulation methods. For use as a reference for electrical engineers for all basic relevant topics in digital communication system design.

Software-Defined Radio for Engineers

Introduction to Communication Systems

The electrical engineering curriculum in every university now includes either a one-semester or one-year course in communications theory and practice and/or communications engineering. An indispensable supplement to the standard texts used in those courses, this new edition of the classic Schaum's Outline has been thoroughly revised and updated to conform to the latest changes in the engineering curriculum. It now features new chapters on signals and spectra, signal transmission and filtering, information channel capacity, and error-control coding. It covers noiseless modulation theory, including amplitude and angle

modulation, and includes expanded coverage of digital communications. It also features 430 fully solved problems. Hwei Hsu, Ph.D., is a professor and former chair of the Electrical Engineering Department at Fairleigh Dickinson University.

Theory and Design of Digital Communication Systems

Covers all important topics in digital transmission at the intuitive level of physical systems. The presentation attempts to bridge the gap between communication practice and theory, emphasizing the interplay between modulation and coding and their receiver counterparts. KEY TOPICS: Emphasizes the engineering tradeoffs in signal design, energy and spectral properties of modulation choices, and receiver design aspects including synchronization. Presents expanded material on lattices and block coding theory and applications. Reed-Solomon and BCH encoding and decoding algorithms are treated at length along with applications to bandlimited Gaussian channels and fading channels.

Synchronization in Digital Communication Systems

Get a Solid Account of Physical Layer Communications Theory, Illustrated with Numerous Interactive MATLAB Mini-Projects You can rely on Fundamentals of Communications Systems for a solid introduction to physical layer communications

theory, filled with modern implementations and MATLAB examples. This state-of-the-art guide covers essential theory and current engineering practice, carefully explaining the real-world tradeoffs necessary among performance, spectral efficiency, and complexity. Written by an award-winning communications expert, the book first takes readers through analog communications basics, amplitude modulations, analog angle modulation, and random processes. This essential resource then explains noise in bandpass communications systemsbandpass Gaussian random processesdigital communications basicscomplexity of optimum demodulationspectrally efficient data transmissionand more. Fundamentals of Communications Systems features: A modern approach to communications theory, reflecting current engineering applications Numerous MATLAB problems integrated throughout, with software available for download Detailed coverage of tradeoffs among performance, spectral efficiency, and complexity in engineering design Text written in four parts for easy modular presentation Inside This On-Target Communications Engineering Tool • Mathematical Foundations • Analog Communications Basics • Amplitude Modulations • Analog Angle Modulation • More Topics in Analog Communications • Random Processes • Noise in Bandpass Communications Systems • Bandpass Gaussian Random Processes • Digital Communications Basics • Optimal Single Bit Demodulation Structures • Transmitting More than One Bit • Complexity of Optimum Demodulation • Spectrally Efficient Data Transmission

AETA 2013: Recent Advances in Electrical Engineering and Related Sciences

Learn how to build efficient, simple, high performance indoor optical wireless communication systems based on visible and infrared light.

A Foundation in Digital Communication

Featuring a variety of applications that motivate students, this book serves as a companion or supplement to any of the comprehensive textbooks in communication systems. The book provides a variety of exercises that may be solved on the computer using MATLAB. By design, the treatment of the various topics is brief. The authors provide the motivation and a short introduction to each topic, establish the necessary notation, and then illustrate the basic concepts by means of an example. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Digital Signal Processing

Over the past decades, fault diagnosis (FDI) and fault tolerant control strategies (FTC) have been proposed based on different techniques for linear and nonlinear

systems. Indeed a considerable attention is deployed in order to cope with diverse damages resulting in faults occurrence.

Principles of Digital Communication

The book 'Digital Communications' is meant for the students of Electronics and Communication, Computer Science, Electrical Engineering, Electrical and Electronics Engineering and Information Technology branches, both at undergraduate and post-graduate levels. In this book, the basic principles involved in the analysis and design of Digital Communication Systems are presented with an overall aim of helping the students to develop an intuitive idea about the theory under discussion. It is a well-designed textbook for self-study as well as a reference for anyone who has interest in studying Digital Communications. The book, though comprehensive, has been developed in a reader-friendly fashion by providing numerous pedagogical aids for the study of Digital Communication Systems.

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