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## WIRELESS COMMUNICATIONS SYSTEMS

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### AN INTRODUCTION

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*John Wiley & Sons* A comprehensive introduction to the fundamentals of design and applications of wireless communications *Wireless Communications Systems* starts by explaining the fundamentals needed to understand, design, and deploy wireless communications systems. The author, a noted expert on the topic, explores the basic concepts of signals, modulation, antennas, and propagation with a MATLAB emphasis. The book emphasizes practical applications and concepts needed by wireless engineers. The author introduces applications of wireless communications and includes information on satellite communications, radio frequency identification, and offers an overview with practical insights into the topic of multiple input multiple output (MIMO). The book also explains the security and health effects of wireless systems concerns on users and designers. Designed as a practical resource, the text contains a range of examples and pictures that illustrate many different aspects of wireless technology. The book relies on MATLAB for most of the computations and graphics. This important text: Reviews the basic information needed to understand and design wireless communications systems Covers topics such as MIMO systems, adaptive antennas, direction finding, wireless security, internet of things (IoT), radio frequency identification (RFID), and software defined radio (SDR) Provides examples with a MATLAB emphasis to aid comprehension Includes an online solutions manual and video lectures on selected topics Written for students of engineering and physics and practicing engineers and scientists, *Wireless Communications Systems* covers the fundamentals of wireless engineering in a clear and concise manner and contains many illustrative examples.

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### SOLUTIONS MANUAL FOR MODERN DIGITAL AND ANALOG COMMUNICATION SYSTEMS

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This third edition has been revised to include expanded coverage of digital communications. New topics include spread-spectrum systems, cellular communication systems, global positioning systems (GPS), and a chapter on emerging digital technologies such as SONET, ISDN and video compression.

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### BOOKS IN PRINT

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### THE PUBLISHERS' TRADE LIST ANNUAL

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### COMMUNICATION SYSTEMS PRINCIPLES USING MATLAB

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*John Wiley & Sons* Discover the basic telecommunications systems principles in an accessible learn-by-doing format *Communication Systems Principles Using MATLAB* covers a variety of systems principles in telecommunications in an accessible format without the need to master a large body of theory. The text puts the focus on topics such as radio and wireless modulation, reception and transmission, wired networks and fiber optic communications. The book also explores packet networks and TCP/IP as well as digital source and channel coding, and the fundamentals of data encryption. Since MATLAB® is widely used by telecommunications engineers, it was chosen as the vehicle to demonstrate many of the basic ideas, with code examples presented in every chapter. The text addresses digital communications with coverage of packet-switched networks. Many fundamental concepts such as routing via shortest-path are introduced with simple and concrete examples. The treatment of advanced telecommunications topics extends to OFDM for wireless modulation, and public-key exchange algorithms for data encryption. Throughout the book, the author puts the emphasis on understanding rather than memorization. The text also: Includes many useful take-home skills that can be honed while studying each aspect of telecommunications Offers a coding and experimentation approach with many real-world examples provided Gives information on the underlying theory in order to better understand conceptual developments Suggests a valuable learn-by-doing approach to the topic Written for students of telecommunications engineering, *Communication Systems Principles Using MATLAB®* is the hands-on resource for mastering the basic concepts of telecommunications in a learn-by-doing format.

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### WIRELESS COMMUNICATIONS & NETWORKING

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*Elsevier* This book provides comprehensive coverage of mobile data networking and mobile communications under a single cover for diverse audiences including managers, practicing engineers, and students who need to understand this industry. In the last two decades, many books have been written on the subject of wireless communications and networking. However, mobile data networking and mobile communications were not fully addressed in a unified fashion. This book fills that gap in the literature and is written to provide essentials of wireless communications and wireless networking, including Wireless Personal Area Networks (WPAN), Wireless Local Area Networks (WLAN), and Wireless Wide Area Networks (WWAN). The first ten chapters of the book focus on the fundamentals that are required to study mobile data networking and mobile communications. Numerous solved examples have been included to show applications of theoretical concepts. In addition, unsolved problems are given at the end of each chapter for practice. (A solutions manual will be available.) After introducing fundamental concepts, the book focuses on mobile networking aspects. Four chapters are devoted on the discussion of WPAN, WLAN, WWAN, and internetworking between WLAN and WWAN. Remaining seven chapters deal with other aspects of mobile communications such as mobility management, security, cellular network planning, and 4G systems. A unique feature of this book that is missing in most of the available books on wireless communications and networking is a balance between the theoretical and practical concepts. Moreover, this book can be used to teach a one/two semester course in mobile data networking and mobile communications to ECE and CS students. \*Details the essentials of Wireless Personal Area Networks(WPAN), Wireless Local Are Networks (WLAN), and Wireless Wide Area Networks (WWAN) \*Comprehensive and up-to-date coverage including the latest in standards and 4G technology \*Suitable for classroom use in senior/first year grad level courses. Solutions manual and other instructor support available

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### DIGITAL COMMUNICATIONS AND SPREAD SPECTRUM SYSTEMS

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*Macmillan Publishing Company*

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### ENGINEERING EDUCATION

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### INTRODUCTION TO SPREAD-SPECTRUM COMMUNICATIONS

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*Pearson* Besides the traditional military application areas, there is a growing and intense interest in spread spectrum communications systems for evolving civil applications, e.g., cellular-mobile communications, personal communications, and satellite-mobile communications. Ideal for those who need to get up to speed or current quickly in this area, this self-contained exploration of spread spectrum system analysis and applications provides a solid theoretical background along with an abundance of examples of specific analysis/design situations, and exposes readers to the most recent research and developments in the field. Covers basic digital communication and spread spectrum concepts, and features exceptionally complete treatments of important hot topics such as spectrum spreading sequences; the code acquisition and tracking process; the effects of jamming on spread spectrum communications and the use of coding/interleaving to combat the detrimental effects of jamming; designing spread spectrum systems for low probability of the intercept; and the design of code division multiple access systems, with examples. Contains a complete set of technical appendices. For electrical engineers and others with a background in linear systems and probability/random processes who want a cutting-edge overview of the principles, research, and developments of spread spectrum systems.

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## DIGITAL COMMUNICATION- A SIMPLIFIED APPROACH

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This book is designed to serve as a text for senior undergraduate level students in electronics and communication, and telecommunication engineering. It is as well designed to serve as a text for self study and reference book for practicing engineers working in the field of digital communications. The main objective of penning this book has been to make learning intricate concepts a pleasant experience. Features Integrated with Figures and diagrams in abundance, Plentiful worked examples, Lots of exercise problems with answers. Basic principles of Fourier transform have been discussed. Basic properties of Probability and Random Processes have been discussed to characterise random signals and noise. An introduction discussing the building blocks of digital communication system has been added to prepare the student before diving deep into the subject. Matched filters and correlators are discussed step by step with relevant signal constellation diagrams showing the decision boundaries with emphasis on understanding the concept of detection and estimation as foundation. Different types of sampling, multiplexing and reconstruction techniques have been discussed to understand the link between analog and digital world. Generation, transmission and regeneration of signals using PCM and other coding techniques have been discussed in depth. Different types of line coding schemes and effect of noise have been discussed before proceeding to digital modulation schemes. Various digital modulation schemes have been discussed along with diagrams and importance is given to probability of error calculation. Principle of spread-spectrum modulation, its advantages and applications are discussed. A Manual on Advance Communication Lab Practice Contents The Fourier Transforms Probability, Random variables and Random Processes Introduction to Digital Communications Detection and Estimation Sampling Process Waveform Coding Technique Baseband Data Transmission Digital Modulation Spread Spectrum Modulation Appendices. Experiments on Digital Communication Experiments on Fiber Optical Communication Experiments on Wave Guides Experiments on Microstrip Transmission Lines Experiments on Microstrip Transmission Lines Experiments on Microstrip Transmission Lines

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## INTRODUCTION TO DIGITAL COMMUNICATION

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*Macmillan Coll Division* This book provides a comprehensive and in-depth practical introduction to digital communications, from fundamental theory to state-of-the-art material. It incorporates many practical examples of design issues. The book offers a broad perspective through a wide range of discussion topics, as well as basic background material. It covers a wide range of topics, including digital modulation; signal-space methods; coding; spread spectrum communications; digital cellular communications; and satellite communication link analysis. The book includes derivations as well as tables of special functions. It also provides applications of MATLAB programs useful in communication system design. A valuable reference book for professional communications engineers.ÿ

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## MCGRAW-HILL CONCISE ENCYCLOPEDIA OF SCIENCE & TECHNOLOGY

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*McGraw-Hill Professional Publishing* Features more than seven thousand entries covering topics, terms, and concepts in math, science, and technology.

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## CHOICE

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## PUBLICATION OF THE ASSOCIATION OF COLLEGE AND RESEARCH LIBRARIES, A DIVISION OF THE AMERICAN LIBRARY ASSOCIATION

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## WIRELESS INFORMATION NETWORKS

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*John Wiley & Sons* Towards location aware mobile ad hoc sensors A Systems Engineering Approach to Wireless Information Networks The Second Edition of this internationally respected textbook brings readers fully up to date with the myriad of developments in wireless communications. When first published in 1995, wireless communications was synonymous with cellular telephones. Now wireless information networks are the most important technology in all branches of telecommunications. Readers can learn about the latest applications in such areas as ad hoc sensor networks, home networking, and wireless positioning. *Wireless Information Networks* takes a systems engineering approach: technical topics are presented in the context of how they fit into the ongoing development of new systems and services, as well as the recent developments in national and international spectrum allocations and standards. The authors have organized the myriad of current and emerging wireless technologies into logical categories: \* Introduction to Wireless Networks presents an up-to-the-moment discussion of the evolution of the cellular industry from analog cellular technology to 2G, 3G, and 4G, as well as the emergence of WLAN and WPAN as broadband ad hoc networks \* Characteristics of Radio Propagation includes new coverage of channel modeling for space-time, MIMO, and UWB communications and wireless geolocation networks \* Modem Design offers new descriptions of space-time coding, MIMO antenna systems, UWB communications, and multi-user detection and interference cancellation techniques used in CDMA networks \* Network Access and System Aspects incorporates new chapters on UWB systems and RF geolocations, with a thorough revision of wireless access techniques and wireless systems and standards Exercises that focus on real-world problems are provided at the end of each chapter. The mix of assignments, which includes computer projects and questionnaires in addition to traditional problem sets, helps readers focus on key issues and develop the skills they need to solve actual engineering problems. Extensive references are provided for those readers who would like to explore particular topics in greater depth. With its emphasis on knowledge-building to solve problems, this is an excellent graduate-level textbook. Like the previous edition, this latest edition will also be a standard reference for the telecommunications industry.

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## PRINCIPLES OF COMMUNICATIONS

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## SYSTEMS, MODULATION, AND NOISE

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*John Wiley & Sons Incorporated* Sections on important areas such as spread spectrum, cellular communications, and orthogonal frequency-division multiplexing are provided. \* Computational examples are included, illustrating how to use the computer as a simulation tool, thereby allowing waveforms, spectra, and performance curves to be generated. \* Overviews of the necessary background in signal, system, probability, and random process theory required for the analog and digital communications topics covered in the book.

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## TECHNICAL ABSTRACT BULLETIN

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## MODERN COMMUNICATIONS AND SPREAD SPECTRUM

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*McGraw-Hill College*

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## PERSPECTIVES IN SPREAD SPECTRUM

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*Springer Science & Business Media* Perspectives in Spread Spectrum brings together studies and recent work on six exciting topics from the spread spectrum arts. The book gives a wide, collective view of trends, ideas, and techniques in the spread spectrum discipline, due to the authors' extensive work on spread spectrum techniques and applications from different vantage points. The inexorable march of electronics towards ever faster, ever smaller, and ever more powerful electronic and optical circuitry has wrought, and will continue to enable, profound changes in the spread spectrum arts, by allowing increasingly complex signalling waveforms and statistical tests to be implemented as the theory beyond spread spectrum continues to evolve. Perspectives in Spread Spectrum is divided into six chapters. The first chapter deals with sequence spreading design. There is not a single metric for design of spreading sequences; rather, the design is ideally tailored to the specific scenario of usage. This chapter delves into recent and very promising synthesis work. The second chapter deals with OFDM techniques. As channels become wider and trans-channel fading (or jamming) becomes frequency selective across the band, OFDM techniques may provide a powerful alternative design perspective. The third chapter is a generalization of the venerable Walsh functions. A new modulation scheme, Geometric Harmonic Modulation, GHM for short, is reviewed and characterized as a form of OFDM. From GHM, a further generalization of the Walsh functions is derived for non-binary signalling. The fourth chapter is concerned with some new and exciting results regarding the follower jammer paradigm. A counter-countermeasure technique is reviewed, notable for its counterintuitive characteristic which can be understood from a simple yet elegant game framework. The fifth chapter recounts some results pertaining to random coding for an optical spread spectrum link. The technique is based on laser speckle statistics and uses a coherent array of spatial light modulators at the transmitter but allows the receiver to be realized as a spatially distributed radiometric and therefore incoherent structure. The sixth and final chapter looks at an important and interesting application of spread spectrum to accurately locate a wideband, 'bent pipe', satellite transponder. It is, in a strong sense, an inverted GPS technique. Perspectives in Spread Spectrum serves as an excellent reference and source of ideas for further research, and may be used as a text for advanced courses on the topic.

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## PRINCIPLES OF COMMUNICATION SYSTEMS

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*McGraw-Hill Companies*

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## SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS

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Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

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## GAME THEORY

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## AN INTRODUCTION

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*Princeton University Press* The definitive introduction to game theory This comprehensive textbook introduces readers to the principal ideas and applications of game theory, in a style that combines rigor with accessibility. Steven Tadelis begins with a concise description of rational decision making, and goes on to discuss strategic and extensive form games with complete information, Bayesian games, and extensive form games with imperfect information. He covers a host of topics, including multistage and repeated games, bargaining theory, auctions, rent-seeking games, mechanism design, signaling games, reputation building, and information transmission games. Unlike other books on game theory, this one begins with the idea of rationality and explores its implications for multiperson decision problems through concepts like dominated strategies and rationalizability. Only then does it present the subject of Nash equilibrium and its derivatives. Game Theory is the ideal textbook for advanced undergraduate and beginning graduate students. Throughout, concepts and methods are explained using real-world examples backed by precise analytic material. The book features many important applications to economics and political science, as well as numerous exercises that focus on how to formalize informal situations and then analyze them. Introduces the core ideas and applications of game theory Covers static and dynamic games, with complete and incomplete information Features a variety of examples, applications, and exercises Topics include repeated games, bargaining, auctions, signaling, reputation, and information transmission Ideal for advanced undergraduate and beginning graduate students Complete solutions available to teachers and selected solutions available to students

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## PROPAGATION CHANNEL CHARACTERIZATION, PARAMETER ESTIMATION, AND MODELING FOR WIRELESS COMMUNICATIONS

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*John Wiley & Sons* A comprehensive reference giving a thorough explanation of propagation mechanisms, channel characteristics results, measurement approaches and the modelling of channels Thoroughly covering channel characteristics and parameters, this book provides the knowledge needed to design various wireless systems, such as cellular communication systems, RFID and ad hoc wireless communication systems. It gives a detailed introduction to aspects of channels before presenting the novel estimation and modelling techniques which can be used to achieve accurate models. To systematically guide readers through the topic, the book is organized in three distinct parts. The first part covers the fundamentals of the characterization of propagation channels, including the conventional single-input single-output (SISO) propagation channel characterization as well as its extension to multiple-input multiple-output (MIMO) cases. Part two focuses on channel measurements and channel data post-processing. Wideband channel measurements are introduced, including the equipment, technology and advantages and disadvantages of different data acquisition schemes. The channel parameter estimation methods are then presented, which include conventional spectral-based estimation, the specular-path-model based high-resolution method, and the newly derived power spectrum estimation methods. Measurement results are used to compare the performance of the different estimation methods. The third part gives a complete introduction to different modelling approaches. Among them, both scattering theoretical channel modelling and measurement-based channel modelling approaches are detailed. This part also approaches how to utilize these two modelling approaches to investigate wireless channels for conventional cellular systems and some new emerging communication systems. This three-part approach means the book caters for the requirements of the audiences at different levels, including readers needing introductory knowledge, engineers who are looking for more advanced understanding, and expert researchers in wireless system design as a reference. Presents technical explanations, illustrated with examples of the theory in practice Discusses results applied to 4G communication systems and other emerging communication systems, such as relay, CoMP, and vehicle-to-vehicle rapid time-variant channels Can be used as comprehensive tutorial for students or a complete reference for engineers in industry Includes selected illustrations in color Program downloads available for readers Companion website with program downloads for readers and presentation slides and solution manual for instructors Essential reading for Graduate students and researchers interested in the characteristics of propagation channel, or who work in areas related to physical layer architectures, air interfaces, navigation, and wireless sensing

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## COMMUNICATION SYSTEMS

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*John Wiley & Sons*

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## ALGORITHMS FOR COMMUNICATIONS SYSTEMS AND THEIR APPLICATIONS

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*John Wiley & Sons* This volume presents the logical arithmetical or computational procedures within communications systems that will ensure the solution to various problems. The authors comprehensively introduce the theoretical elements that are at the basis of the field of algorithms for communications systems. Various applications of these algorithms are then illustrated with particular attention to wired and wireless network access technologies. \* Provides a complete treatment of algorithms for communications systems, rarely presented together \* Introduces the theoretical background to digital communications and signal processing \* Features numerous applications including advanced wireless modems and echo cancellation techniques \* Includes useful reference lists at the end of each chapter Graduate students in the fields of Telecommunications and Electrical Engineering Researchers and Professionals in the area of Digital Communications, Signal Processing and Computer Engineering will find this book invaluable.

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## WIRELESS DIGITAL COMMUNICATIONS

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## MODULATION AND SPREAD SPECTRUM APPLICATIONS

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*Prentice Hall* Describing digital communications principles required for comprehension, analysis, design, advanced R&D and maintenance/operation of present and future generations of digital wireless, cellular and mobile systems, this book presents architectures, hardware and software designs and solutions to common problems. Includes market data and forecast of world-wide growth of wireless systems.

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## TEACHING SOCIAL COMMUNICATION TO CHILDREN WITH AUTISM AND OTHER DEVELOPMENTAL DELAYS, SECOND EDITION

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## THE PROJECT IMPACT MANUAL FOR PARENTS

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*Guilford Publications* Volume 1 : "Recognized as one of the most effective coaching programs for parents of young children (up to age 6) with autism spectrum disorder (ASD) and related social communication delays, this two-book set has been fully revised and updated. It presents everything needed to implement Project ImPACT, an intervention curriculum that teaches parents ways to enhance children's social engagement, communication, imitation, and play skills, within meaningful activities and daily routines. The Guide to Coaching Parents provides a complete introduction and step-by-step coaching procedures for practitioners working with individual parents or groups. The Manual for Parents, which includes 20 reproducible forms, helps parents master the strategies and use them at home. Both volumes have a convenient large-size format. The parent manual is also sold separately (ISBN 978-1-4625-3808-9)." -- Page 4 de la couverture

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## READINGS IN HARDWARE/SOFTWARE CO-DESIGN

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*Morgan Kaufmann* This title serves as an introduction and reference for the field, with the papers that have shaped the hardware/software co-design since its inception in the early 90s.

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## DIGITAL COMMUNICATIONS

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*McGraw-Hill College* This text provides an introduction to the analysis and design of digital communication systems. The third edition has been updated with a discussion of modern technological advances, providing coverage of such topics as digital modulation and demodulation techniques, source coding, channel coding and decoding, spread spectrum signals, channel equalization, multiuser communications, and modulation and coding for fading multipath channels. In addition, the book has been reorganized so that each chapter builds on previous material, begins with an introduction to the history and classification of channel models and reviews important topics in probability and stochastic processes.

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**APPLIED MECHANICS REVIEWS**

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**SPREAD SPECTRUM SYSTEMS**

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*Wiley-Interscience*

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**BULLETIN OF THE ATOMIC SCIENTISTS**

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The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.

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**CDMA**

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**PRINCIPLES OF SPREAD SPECTRUM COMMUNICATION**

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*Prentice Hall* Spread spectrum multiple access communication, known commercially as CDMA (Code Division Multiple Access), is a driving technology behind the rapidly advancing personal communications industry. Its greater bandwidth efficiency and multiple access capabilities make it the leading technology for relieving spectrum congestion caused by the explosion in popularity of cellular mobile and fixed wireless telephones and wireless data terminals. Written by a leader in the creation of CDMA and an internationally recognized authority on wireless digital communication, this book gives you the technical information you need. It presents the fundamentals of digital communications and covers all aspects of commercial direct-sequence spread spectrum technology, incorporating both physical-level principles and network concepts. You will find detailed information on signal generation, synchronization, modulation, and coding of direct-sequence spread spectrum signals. In addition, the book shows how these physical layer functions relate to link and network properties involving cellular coverage, Erlang capacity, and network control. With this book, you will attain a deeper understanding of personal communications system concepts and will be better equipped to develop systems and products at the forefront of the personal wireless communications market.

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**DOCUMENTATION ABSTRACTS**

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**BULLETIN OF THE ATOMIC SCIENTISTS**

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The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.

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**CONFERENCE RECORD**

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**BULLETIN OF THE ATOMIC SCIENTISTS**

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The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.

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**NETWORK WORLD**

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For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

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**ELECTRICAL & ELECTRONICS ABSTRACTS**

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**UMTS**

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**THE FUNDAMENTALS**

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*John Wiley & Sons* UMTS (Universal Mobile Telecommunication System) is the third generation telecommunications system based on WCDMA. WCDMA (Wideband Code Division Multiple Access) is the radio interface for UMTS. WCDMA is characterised by use of a wider band than CDMA. It has additional advantages of high transfer rate, and increased system capacity and communication quality by statistical multiplexing, etc. WCDMA efficiently utilises the radio spectrum to provide a maximum data rate of 2 Mbit/s. UMTS (Universal Mobile Telecommunication System) will offer a consistent set of services to mobile computer and phone users no matter where they are located in the world. Based on the GSM (Global System for Mobile communication) communication standard, UMTS, endorsed by major standards bodies and manufacturers, is the planned standard for mobile users around the world by 2002. Today's cellular telephone systems are mainly circuit-switched, with connections always dependent on circuit availability. Packet-switched connection, using the Internet Protocol (IP), means that a virtual connection is always available to any other end point in the network. It will also make it possible to provide new services, such as alternative billing methods (pay-per-bit, pay-per-session, flat rate, asymmetric bandwidth, and others). The higher bandwidth of UMTS also promises new services, such as video conferencing and promises to realise the Virtual Home Environment (VHE) in which a roaming user can have the same services to which the user is accustomed when at home or in the office, through a combination of transparent terrestrial and satellite connections. \* Provides an introduction to cellular networks and digital communications \* Covers the air interface, radio access network and core network \* Explains the Release '99 specifications clearly and effectively \* Discusses UMTS services and future services beyond 3G \* Features numerous problems and solutions in order to aid understanding Ideal for Academics and students on telecommunications, electronics and computer science courses, research and development engineers working in mobile/wireless communications and Cellular operators and technical consultants.

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**BOOKS IN SERIES, 1985-89**

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**CUMULATIVE 1985-88**

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