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Digital Communication Digital Communications Digital Communications Introduction to Digital Communication Systems Handbook of Research on Digital Communications, Internet of Things, and the Future of Cultural Tourism Principles of Digital Communication Management of Electronic and Digital Media Digital Communications Digital and Analog Communication Systems Digital Strategies for Powerful Corporate Communications Analog and Digital Communication Digital Communications Advances in Design and Digital Communication III Fundamentals of Digital Communication A First Course in Digital Communications Handbook of Research on Examining Cultural Policies Through Digital Communication Digital Communications Introduction to Digital Communications Advanced Electronic Communications Systems Communication Systems - I A Foundation in Digital Communication Satellite Communications Systems Digital and Analog Communication Systems Digital Communication over Fading Channels Principles of Digital Communication The Social Church Digital Communications and Signal Processing (Second Edition) Principles of Communications Six Sigma Design of a Wideband Digital Communication System Software Receiver Design Theory and Design of Digital Communication Systems A Philosopher Looks at Digital Communication An Introduction To Analog And Digital Communications Digital Rhetoric and Global Literacies: Communication Modes and Digital Practices in the Networked World Personal Connections in the Digital Age Communication Systems Fire Controlman, Volume 6-Digital Communications, Training Manual (TRAMAN) and Nonresident Training Course (NRTC), July 1997 Principles of Communications Synchronization in Digital Communication Systems Transitions from Digital Communications to Quantum Communications

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Keeping up to date with the most current technologies in the field is essential for all effective electrical and computer engineers. The updated 7th edition of Principles of Communications presents the reader with more in-chapter examples, providing for a more supportive framework for learning. Readers are exposed to digital data transmission techniques earlier in the book, so they can appreciate the characteristics of digital communication systems prior to learning about probability and stochastic processes. They will also find expanded forward error correction code examples, and additional MATLAB problems. The updated 6th edition of the authoritative and comprehensive textbook to the field of satellite communications engineering The revised and updated sixth edition of 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. In addition, the book is designed in a user-friendly format. This important text: Puts the focus on satellite communications and networks as well as the related applications and services Provides an essential, comprehensive and authoritative updated guide to the topic Contains new topics including the space segment, ground, ground satellite control and network management, relevant terrestrial networks and more Includes helpful illustrations, tables and problems to enhance learning Offers a summary at the beginning of each chapter to help understand the concepts and principles discussed Written for research students studying or researching in the areas related to satellite communications systems and networks, the updated sixth edition of Satellite Communications Systems offers an essential guide to the most recent developments in the field of satellite communications engineering and references to international standards. 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. Comprehensive in scope and contemporary in coverage, this book extends and updates the knowledge of the reader to the most modern topics in Electronic Communications systems. Numerous examples throughout provide readers with real-life applications of the concepts of analog and digital communications systems, while chapter-end questions and problems give them a chance to test and review their understanding of fundamental and key topics. Modern digital and data

communications systems, microwave radio communications systems, satellite communications systems, and optical fiber communications systems. Cellular and PCS telephone systems coverage presents the latest and most innovative technological advancements being made in cellular communication systems. Optical fiber communications chapter includes new sections on light sources, optical power, optical sources and link budget. Current topics include trellis encoding, CCITT modem recommendations, PCM line speed, extended superframe format, wavelength division multiplexing, Kepler's laws, Clark orbits, limits of visibility, Satellite Radio Navigation and Navstar GPS. For the study of electronic communications systems. 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. 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. Analysis tools such as Fourier series, Fourier transforms signals, systems and spectral densities are discussed in the second chapter. Introduction is presented in the first chapter. Third chapter presents additional analysis techniques such as probability, random variables, distribution functions and density functions. Probability models and random processes are also discussed. Noise representation, sources, noise factor, noise temperature, filtering of noise, noise bandwidth and performance of AM/FM in presence of noise is discussed in fourth chapter. Analog pulse modulation is presented in fifth chapter.

Sampling, PAM, PAM/TDM are discussed in this chapter. Sixth chapter deals with digital pulse modulation methods such as PCM, DM, ADM and DPCM. Seventh chapter presents digital multiplexers, line coding, synchronization, scramblers, ISI, eye patterns and equalization techniques. Digital modulation is presented in eighth chapter. Phase shift keying, frequency shift keying, QPSK, QAM and MSK are presented. Last chapter deals with error performance of these techniques using matched filter. Combining theoretical knowledge and practical applications, this advanced-level textbook covers the most important aspects of contemporary digital communication systems. Introduction to Digital Communication Systems focuses on the rules of functioning digital communication system blocks, starting with the performance limits set by the information theory. Drawing on information relating to turbo codes and LDPC codes, the text presents the basic methods of error correction and detection, followed by baseband transmission methods, and single- and multi-carrier digital modulations. The basic properties of several physical communication channels used in digital communication systems are explained, showing the transmission and reception methods on channels suffering from intersymbol interference. The text also describes the most recent developments in the transmission techniques specific to wireless communications used both in wireline and wireless systems. The case studies are a unique feature of this book, illustrating elements of the theory developed in each chapter. Introduction to Digital Communication Systems provides a concise approach to digital communications, with practical examples and problems to supplement the text. There is also a companion website featuring an instructors' solutions manual and presentation slides to aid understanding. Offers theoretical and practical knowledge in a self-contained textbook on digital communications Explains basic rules of recent achievements in digital communication systems such as MIMO, turbo codes, LDPC codes, OFDMA, SC-FDMA Provides problems at the end of each chapter with an instructors' solutions manual on the companion website Includes case studies and representative communication system examples such as DVB-S, GSM, UMTS, 3GPP-LTE Packed with real-life examples and case studies, MANAGEMENT OF ELECTRONIC AND DIGITAL MEDIA, 6e, provides the latest information on the management and leadership techniques and strategies used in the electronic and digital media industries. The text is popular for its contemporary approach and clear, current illustrations. Succinctly written, the Sixth Edition covers the most important aspects for future managers, leaders and entrepreneurs in the rapidly evolving media industries -- and includes an all-new chapter: Media Management: Manager/Leader/Entrepreneur. New coverage highlights trends in big data,

mobile, social media, and the cloud. In addition, end-of-chapter case studies put readers in the role of a manager in a decision-making environment. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Did you know you can read online reviews of your church? How often have you talked about “reaching people where they are” —and realized that much of the time, they are on the Internet? We’ve been living in a digital world for quite a while now. Justin Wise speaks about social media as this generation's printing press—a revolutionary technology that can spread the gospel farther and faster than we can imagine. It’s time to take what we know (and admit what we don’t know) and learn together how to move forward as the church. Are you ready to think theologically about this digital age and reach people in a new way? 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'. An introductory treatment of communication theory as applied to the transmission of information-bearing signals with attention given to both analog and digital communications. Chapter 1 reviews basic concepts. Chapters 2 through 4 pertain to the characterization of signals and systems. Chapters 5 through 7 are concerned with transmission of message signals over communication channels. Chapters 8 through 10 deal with noise in analog and digital communications. Each chapter (except chapter 1) begins with introductory remarks and ends with a problem set. Treatment is self-contained with numerous worked-out examples to support the theory.

- Fourier Analysis
- Filtering and Signal Distortion
- Spectral Density and Correlation
- Digital Coding of Analog Waveforms
- Intersymbol Interference and Its Cures
- Modulation Techniques
- Probability Theory and Random Processes
- Noise in Analog Modulation
- Optimum Receivers for Data Communication

The explosion of blogs, social networking

sites, wikis, video sharing sites, and other powerful digital communications platforms may be the biggest game-changer to impact business since mechanized manufacturing. In today's Web 2.0 world, company stakeholders--including employees, customers, and investors--are empowered in ways unimaginable just a few years ago, and traditional corporate hierarchies are yesterday's news. Rather than attempt to turn back the clock and reassert strict, top-down control over stakeholder relationships, the smartest companies worldwide are responding with bold new digital communications strategies based on transparency, authenticity, and inclusion, instead of secrecy, artificiality, and exclusion. International corporate communications guru Paul A. Argenti provides a lively, up-to-the-minute review of the Web 2.0 landscape and analyzes the increasingly central role corporate communications plays in virtually every organizational function. Argenti and coauthor Courtney Barnes advise corporate leaders on how to deploy proven strategies for using new and emerging digital platforms to Manage brand identity and company reputation Build a culture of engagement and transparency Turn stakeholders into "company evangelists" Manage internal communications across time zones and language barriers Recruit and retain the best talent Develop compelling messages based on customer and investor needs and desires Argenti and Barnes provide case studies illustrating digital communications best practices at HP, Southwest Airlines, Sony, Dell, IBM, Starbucks, HBO, FedEx, GE, and other major players. This groundbreaking book will teach you how to gain real, manageable control over your organization's communications in today's virtual world. This practical guide helps readers to learn how to develop and implement synchronization functions in digital communication systems. A comprehensive text that takes a unique top-down approach to teaching the fundamentals of digital communication for a one-semester course. 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: Turbocodes, 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. Understanding digital modes and practices of traditional rhetoric are essential in emphasizing information and interaction in human-to-human and human-computer contexts. These emerging technologies are essential in gauging



information processes across global contexts. *Digital Rhetoric and Global Literacies: Communication Modes and Digital Practices in the Networked World* compiles relevant theoretical frameworks, current practical applications, and emerging practices of digital rhetoric. Highlighting the key principles and understandings of the underlying modes, practices, and literacies of communication, this book is a vital guide for professionals, scholars, researchers, and educators interested in finding clarity and enrichment in the diverse perspectives of digital rhetoric research. This book addresses the move towards quantum communications, in light of the recent technological developments on photonic crystals and their potential applications in systems. The authors present the state of the art on extensive quantum communications, the first part of the book being dedicated to the relevant theory; quantum gates such as Deutsch gates, Toffoli gates and Dedekind gates are reviewed with regards to their feasibility as electronic circuits and their implementation in systems, and a comparison is performed in parallel with conventional circuits such as FPGAs and DSPs. The specifics of quantum communication are also revealed through the entanglement and Bell states, and mathematical and physical aspects of quantum optical fibers and photonic crystals are considered in order to optimize the quantum transmissions. These concepts are linked with relevant, practical examples in the second part of the book, which presents six integrated applications for quantum communications. Digital communication is significantly expanding new opportunities and challenges in the tourism industry. Tourists, now more frequently than ever, bring their smartphones with them to every destination, and cultural tourists are particularly motivated to utilize a variety of services and platforms as they are especially open and interested in understanding in detail the places and heritage of the places they visit. Thus, researchers, educators, and professionals in the tourism and hospitality field should take advantage of this opportunity to propose new ways of presenting better content and creating a more immersive and optimized experience for tourists. *The Handbook of Research on Digital Communications, Internet of Things, and the Future of Cultural Tourism* shares research and experiences on the convergence between digital communication and cultural tourism, specifically the migration and creative appropriation of these technologies for increased tourist engagement and their role in destination marketing and strategic planning and decision making. Covering topics such as big data, e-tourism, and social media platforms, this major reference work is an invaluable resource for researchers, students, professors, academicians, government entities, museum managers, professionals, and cultural tourism managers and facilitators. The internet and the mobile phone have disrupted

many of our conventional understandings of ourselves and our relationships, raising anxieties and hopes about their effects on our lives. In this second edition of her timely and vibrant book, Nancy Baym provides frameworks for thinking critically about the roles of digital media in personal relationships. Rather than providing exuberant accounts or cautionary tales, it offers a data-grounded primer on how to make sense of these important changes in relational life. Fully updated to reflect new developments in technology and digital scholarship, the book identifies the core relational issues these media disturb and shows how our talk about them echoes historical discussions about earlier communication technologies. Chapters explore how we use mediated language and nonverbal behavior to develop and maintain communities, social networks, and new relationships, and to maintain existing relationships in our everyday lives. The book combines research findings with lively examples to address questions such as: Can mediated interaction be warm and personal? Are people honest about themselves online? Can relationships that start online work? Do digital media damage the other relationships in our lives? Throughout, the book argues that these questions must be answered with firm understandings of media qualities and the social and personal contexts in which they are developed and used. This new edition of *Personal Connections in the Digital Age* will be required reading for all students and scholars of media, communication studies, and sociology, as well as all those who want a richer understanding of digital media and everyday life. 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. 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. This supplement contains worked out solutions to the chapter end problem sets found in Digital Communication, Second Edition, ISBN 0-7923-9391-0. An introductory course on analog and digital communications is fundamental to the undergraduate program in electrical engineering. This course is usually offered at the junior level. Typically, it is assumed that the student has a background in calculus, electronics, signals and systems, and possibly probability theory. Bearing in mind the introductory nature of this course, a textbook recommended for the course must be easy to read, accurate, and contain an abundance of insightful examples, problems, and computer experiments. These objectives of the book are needed to expedite learning the fundamentals of communication systems at an introductory level and in an effective manner. This book has been written with all of these objectives in mind. Given the mathematical nature of communication theory, it is rather easy for the reader to lose sight of the practical side of communication systems. Throughout the book, we have made a special effort not to fall into this trap. We have done this by moving through the treatment of the subject in an orderly manner, always trying to keep the mathematical treatment at an easy-to-grasp level and also pointing out practical relevance of the theory wherever it is appropriate to do so. Have you ever wanted to know how modern digital communications systems work? Find out with this step-by-step guide to building a complete digital radio that includes every element of a typical, real-world communication system. Chapter by chapter, you will create a MATLAB realization of the various pieces of the system, exploring the key ideas along the way, as well as analyzing and assessing the performance of each component. Then, in the final chapters, you will discover how all the parts fit together and interact as you build the complete receiver. In addition to coverage of crucial issues, such as timing, carrier recovery and equalization, the text contains over 400 practical exercises, providing invaluable preparation for industry, where wireless communications and software radio are becoming increasingly important. A variety of extra resources are also provided online, including lecture slides and a solutions manual for instructors. The four short years since Digital Communication over Fading Channels became an instant classic have seen a virtual explosion of significant new work on the subject, both by the authors and by numerous researchers around the world. Foremost among these is a great deal of progress in the area of transmit diversity and space-time coding and the associated multiple input-multiple output (MIMO) channel. This new edition gathers these and other results, previously scattered throughout numerous publications, into a single convenient and informative volume. Like its predecessor, this Second

Edition discusses in detail coherent and noncoherent communication systems as well as a large variety of fading channel models typical of communication links found in the real world. Coverage includes single- and multichannel reception and, in the case of the latter, a large variety of diversity types. The moment generating function (MGF)-based approach for performance analysis, introduced by the authors in the first edition and referred to in literally hundreds of publications, still represents the backbone of the book's presentation. Important features of this new edition include:

- \* An all-new, comprehensive chapter on transmit diversity, space-time coding, and the MIMO channel, focusing on performance evaluation
- \* Coverage of new and improved diversity schemes
- \* Performance analyses of previously known schemes in new and different fading scenarios
- \* A new chapter on the outage probability of cellular mobile radio systems
- \* A new chapter on the capacity of fading channels
- \* And much more

Digital Communication over Fading Channels, Second Edition is an indispensable resource for graduate students, researchers investigating these systems, and practicing engineers responsible for evaluating their performance. "The ethics of communication is distinctive because communication includes a huge, complex and diverse range of activities that penetrate and shape every part of human life. All communication requires at least two parties -an originator and a recipient, or multiple originators and recipients-who must have specific and linkable capacities to satisfy and to recognise the many technical, ethical and epistemic standards that bear on communication"-- This book reports on research findings and practical lessons featuring advances in the areas of digital and interaction design, graphic design and branding, design education, society and communication in design practice, and related ones. Gathering the proceedings of the 6th International Conference on Digital Design and Communication, Digicom 2022, held on November 3–5, 2022, as an hybrid event, from Barcelos, Portugal, and continuing the tradition of the previous book, it describes new design strategies and solutions to foster digital communication within and between the society, institutions and brands. By highlighting innovative ideas and reporting on multidisciplinary projects, it offers a source of inspiration for designers of all kinds, including graphic and web designers, UI, UX and social media designers, and to researchers, advertisers, artists, and brand and corporate communication managers alike. Exceptionally up-to-date, this book provides a broad introduction to basic analog and digital principles and their application to the design and analysis of real-world communication systems. It provides readers with a working knowledge of how to use both classical mathematical and personal computer methods to analyze, design, and simulate modern communication systems. MATLAB is

integrated throughout. Study-aid examples and homework problems are included, many of which require solution via a personal computer. MATLAB illustrative examples and plots are included. Balanced coverage of both analog and digital communication systems with an emphasis on the design of digital communication systems. Case studies of modern communication systems are provided. Over 500 problems provided. For electrical engineers. Culture is one of the most important elements for explaining individuals' behaviors within the social structure. It meets the various social needs of members of a society by directing how individuals must react to various events and how to act in specific circumstances. A planned and systematic process is required for disseminating this cultural accumulation as a policy, which is produced collectively by all members within their everyday life practices. The Handbook of Research on Examining Cultural Policies Through Digital Communication provides emerging research on this aspect of cultural policy, which is formed within the framework of this systematic process in a strategic manner and can be defined as various activities of the state intended for art, human sciences, and cultural inheritance. Creating such cultural policies involves the establishment of measures and organizations required for the development of each individual, providing economic and social facilities, all of which are actions intended for directing society. Featuring coverage on a broad range of topics such as long-distance education, digital citizenship, and public diplomacy, this book is ideally designed for academicians, researchers, advanced-level students, sociologists, international and national organizations, and government officials. Introduction to Digital Communications explores the basic principles in the analysis and design of digital communication systems, including design objectives, constraints and trade-offs. After portraying the big picture and laying the background material, this book lucidly progresses to a comprehensive and detailed discussion of all critical elements and key functions in digital communications. The first undergraduate-level textbook exclusively on digital communications, with a complete coverage of source and channel coding, modulation, and synchronization. Discusses major aspects of communication networks and multiuser communications Provides insightful descriptions and intuitive explanations of all complex concepts Focuses on practical applications and illustrative examples. A companion Web site includes solutions to end-of-chapter problems and computer exercises, lecture slides, and figures and tables from the text 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 refer to in their professional careers. This best-selling book in Digital Communications by John G. Proakis has been revised to reflect the current trends in the field. Some of the topics that have been added include TurboCodes, Antenna Arrays, Iterative Detection, and Digital Cellular Systems. Also new to this edition are electronic figures for presentation materials found on the website. 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. For second and third year introductory communication systems courses for undergraduates, or an introductory graduate course. This revision of Couch's authoritative text provides the latest treatment of digital communication systems. The author balances coverage of both digital and analog communication systems, with an emphasis on design. Students will gain a working knowledge of both classical mathematical and personal computer methods to analyze, design, and simulate modern communication systems. MATLAB is integrated throughout.

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