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Digital Communications Cambridge University Press

Revised to reflect all the current trends in the digital communications field, 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. **Digital Communication Systems Engineering with Software-Defined Radio** Springer Science & Business Media
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. (The authors assume that the student is familiar with the fundamentals of 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. **Digital Communications** Cambridge University Press
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.

Synchronization in Digital

Communication Systems McGraw-Hill Science, Engineering & Mathematics Amazon.com's Top-Selling DSP Book for Seven Straight Years—Now Fully Updated! Understanding Digital Signal Processing, Third Edition, is quite simply the best resource for engineers and other technical professionals who want to master and apply today's latest

DSP techniques. Richard G. Lyons has updated and expanded his best-selling second edition to reflect the newest technologies, building on the exceptionally readable coverage that made it the favorite of DSP professionals worldwide. He has also added hands-on problems to every chapter, giving students even more of the practical experience they need to succeed. Comprehensive in scope and clear in approach, this book achieves the perfect balance between theory and practice, keeps math at a tolerable level, and makes DSP exceptionally accessible to beginners without ever oversimplifying it. Readers can thoroughly grasp the basics and quickly move on to more sophisticated techniques. This edition adds extensive new coverage of FIR and IIR filter analysis techniques, digital differentiators, integrators, and matched filters. Lyons has significantly updated and expanded his discussions of multirate processing techniques, which are crucial to modern wireless and satellite communications. He also

presents nearly twice as many DSP Tricks as in the second edition—including techniques even seasoned DSP professionals may have overlooked. Coverage includes New homework problems that deepen your understanding and help you apply what you've learned Practical, day-to-day DSP implementations and problem-solving throughout Useful new guidance on generalized digital networks, including discrete differentiators, integrators, and matched filters Clear descriptions of statistical measures of signals, variance reduction by averaging, and real-world signal-to-noise ratio (SNR) computation A significantly expanded chapter on sample rate conversion (multirate systems) and associated filtering techniques New guidance on implementing fast convolution, IIR filter scaling, and more Enhanced coverage of analyzing digital filter behavior and performance for diverse communications and biomedical applications Discrete sequences/systems, periodic sampling,

DFT, FFT, finite/infinite impulse response filters, quadrature (I/Q) processing, discrete Hilbert transforms, binary number formats, and much more
Introduction to Digital Communications
John Wiley & Sons

In this supplementary text, 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. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Software-Defined Radio for Engineers Artech House
Spread spectrum CDMA systems are becoming widely accepted and promise to play a key role in the future of wireless communications. This comprehensive new book explains the main issues of

spread spectrum CDMA and makes its practical applications available to network engineers and managers. Packed with nearly 1,000 equations, it also provides the mathematical tools necessary to apply the technology to your own wireless system.
Digital Communications McGraw-Hill
College

"Professor Andreas F. Molisch, renowned researcher and educator, has put together the comprehensive book, Wireless Communications. The second edition, which includes a wealth of new material on important topics, ensures the role of the text as the key resource for every student, researcher, and practitioner in the field."
—Professor Moe Win, MIT, USA
Wireless communications has grown rapidly over the past decade from a niche market into one of the most important, fast moving industries. Fully updated to incorporate the latest research and developments, Wireless Communications, Second Edition provides an authoritative overview of the principles and applications of mobile communication technology. The author provides an in-depth analysis of current treatment of the area, addressing both the traditional elements, such as Rayleigh fading, BER in flat fading channels, and equalisation, and more

recently emerging topics such as multi-user detection in CDMA systems, MIMO systems, and cognitive radio. The dominant wireless standards; including cellular, cordless and wireless LANs; are discussed. Topics featured include: wireless propagation channels, transceivers and signal processing, multiple access and advanced transceiver schemes, and standardised wireless systems. Combines mathematical descriptions with intuitive explanations of the physical facts, enabling readers to acquire a deep understanding of the subject. Includes new chapters on cognitive radio, cooperative communications and relaying, video coding, 3GPP Long Term Evolution, and WiMax; plus significant new sections on multi-user MIMO, 802.11n, and information theory. Companion website featuring: supplementary material on 'DECT', solutions manual and presentation slides for instructors, appendices, list of abbreviations and other useful resources.

Contemporary Communication Systems Using MATLAB John Wiley & Sons

With exceptionally clear writing, Lathi takes students step by step through a history of communications systems from elementary signal analysis to advanced concepts in

communications theory. The first four chapters of the text present basic principles, subsequent chapters offer ample material for flexibility in course content and level. All Topics are covered in detail, including a thorough treatment of frequency modulation and phase modulation. Numerous worked examples in each chapter and over 300 end-of-chapter problems and numerous illustrations and figures support the content.

Digital Signal Processing Using MATLAB John Wiley & Sons

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.

Digital Communications Oxford University Press, USA

In a single volume, The Mobile Communications Handbook 2nd. Edition covers the entire field - from

principles of analog and digital communications to cordless telephones, wireless local area networks (LANs), and international technology standards. The amazing scope of the handbook ensures that it will be the primary reference for every aspect of mobile communications.

The Mobile Communications Handbook Artech House

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'.

Contemporary Communication Systems Using MATLAB and Simulink Cengage Learning
Comprehensive in scope and contemporary in coverage, this text introduces basic electronic and data communications fundamentals and explores their application in modern digital and data communications systems.

Modern Digital and Analog Communication Systems Brooks/Cole Publishing Company
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.

Spread Spectrum CDMA Systems for Wireless Communications Vikas Publishing House

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.

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Introduction to Digital Communications Springer

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.

A First Course in Digital Communications Pearson Education

"Once an image is in digital form, what you can do with it is practically endless." Tom Ang Make sure you're picture perfect with this concise and easy-to-use guide to digital photography from expert photographer and bestselling author Tom Ang. Now available in ebook(PDF) format. Understand what to look for when buying cameras, software, or accessories. Follow the essentials of good picture-taking and get expert tips on how to make the most of your digital images from covering the basics to image manipulation and special effects. Plus, "quick fix" pages on how to solve common problems mean your camera can learn to lie. Get clicking and get outstanding results every time. Updates to this

edition Ch. 1 Buyers' Guide (was Total Photography) A guide to cameras and accessories. All new products. Spreads newly presented as "Buyers' Guides", to help the reader decide which products are most suited to their needs. Ch. 2 Photo Techniques (was Photography for the Digital Age) Skills, trade secrets, and techniques of digital photography. Updated text, some new photographs. Ch. 3 A Compendium of Ideas (New, not in previous 2 editions) 36 pages of projects, concepts, subject areas, approaches, and ideas. All new text and photographs, taken from Digital Photographer's Handbook 4th edition. Ch. 4 All About Image Manipulation Filters, image effects, distortion, color control, and manipulation. Some minor reorganization of information, text updated. New text, images and layouts for Filter Effects, pp. 170-177. New spread on High Dynamic Range. Ch. 6 The Output Adventure Proofing and printing, uploading images to the web. Text updated. New spread on Creating a Website. Digital Communications CRC Press 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.

Digital Communications Cengage Learning
Digital Communications is the result of the author's 38 years' experience in teaching, and in design and development of various wireless communication systems. It covers all primary areas in digital communication systems in engineering. The book intends to give the students a grasp of the basic issues of communication systems during transition from analog to digital. To make the reading interesting as well as systematic, conscious efforts have been made to explain the basics of technology, avoiding complex mathematics as far as possible. Numerical problems are then introduced to help the students fully understand the concepts and applications.

KEY FEATURES

- Complete and thorough introduction to the analysis and design of digital communication systems
- Concepts explained with practical applications derived from the personal experience of the author
- Analytical steps of all derivation without any external reference
- Numerous numerical examples to help students understand the fundamental applications of the concepts in practice

Introduction to Digital Signal Processing Using

MATLAB with Application to Digital Communications Academic Press

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.

An Introduction To Analog And Digital Communications Springer Science & Business Media

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.