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Communication Systems  
John Wiley & Sons  
"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',

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solutions manual and presentation slides for instructors, appendices, list of abbreviations and other useful resources.

Library Journal Cambridge University Press

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 Frequency Synthesis Demystified

Springer Science & Business Media

Nichols and Lekkas uncover the threats and vulnerabilities unique to the wireless communication, telecom, broadband, and satellite markets. They provide an overview of current commercial security solutions available on

the open market.

*Biodiversity of Angola*

Springer Nature

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.

Instruments Cambridge

University Press

An accessible undergraduate textbook introducing key fundamental principles behind modern communication systems, supported by exercises, software problems and lab exercises.

*Fundamentals of Digital Communication* Cambridge University Press

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

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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.

### *Deep Space*

### *Telecommunications Systems Engineering* Springer

Science & Business Media

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.

### *Active Touch Sensing*

Cambridge University Press

Presents main concepts of mobile communication systems, both analog and digital Introduces concepts of probability, random variables and stochastic processes and their applications to the analysis of linear systems Includes five appendices covering Fourier series and transforms, GSM cellular systems and more

### Introduction to MIMO

Communications Waveland Press

A comprehensive text that takes a unique top-down approach to teaching the fundamentals of digital communication for a one-semester course.

### **Introduction to Communication**

**Systems** John Wiley & Sons

This textbook takes a unified view of the fundamentals of wireless communication and explains cutting-edge concepts in a simple and intuitive way. An abundant supply of exercises make it ideal for graduate courses in electrical and computer engineering and it will also be of great interest to practising engineers.

### Fundamentals of Wireless

Communication Cambridge University Press

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

### History of Wireless McGraw Hill Professional

Includes, beginning Sept. 15, 1954 (and on the 15th of each month, Sept.-May) a special section: School library journal, ISSN 0000-0035, (called Junior libraries, 1954-May 1961). Issued also separately.

### *A First Course in Digital Communications* Springer

This accessible guide contains everything you need to get up to speed on the theory and implementation of MIMO techniques.

### **The Publishers' Trade List Annual** Elsevier

This book highlights the fundamental principles of optical fiber technology required for understanding modern high-capacity lightwave telecom networks. Such networks have become an indispensable part of society with applications ranging from simple web browsing to critical healthcare diagnosis and cloud computing. Since users expect these services to always be available, careful engineering is required in all technologies ranging from component development to network operations. To achieve this understanding, this book first presents a comprehensive treatment of various optical fiber structures and diverse photonic components used in optical fiber networks. Following this discussion are the fundamental design principles of digital and analog optical fiber transmission links.

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The concluding chapters present the architectures and performance characteristics of optical networks.

*Algebraic Codes for Data Transmission* Cambridge

University Press

· In-depth coverage of modern digital implementations of frequency synthesis architectures. Numerous design examples drawn from actual engineering projects. Digital frequency synthesis is used in modern wireless and communications technologies such as radar, cellular telephony, satellite communications, electronic imaging, and spectroscopy.

This book is a comprehensive overview of digital frequency synthesis theory and applications, with a particular emphasis on the latest approaches using fractional-N phase-locked loop technology. In-depth coverage of modern digital implementations of frequency synthesis architectures. Numerous design examples drawn from actual engineering projects.

Wireless Communications

Cambridge University Press

This monograph is a thoroughly revised and extended version of the author's PhD thesis, which was selected as the winning thesis of the 2002 ACM Doctoral Dissertation Competition. Venkatesan Guruswami did his PhD work at the MIT with Madhu Sudan as thesis adviser. Starting with the seminal work of

Shannon and Hamming, coding theory has generated a rich theory of error-correcting codes. This theory has traditionally gone hand in hand with the algorithmic theory of decoding that tackles the problem of recovering from the transmission errors efficiently.

This book presents some spectacular new results in the area of decoding algorithms for error-correcting codes. Specifically, it shows how the notion of list-decoding can be applied to recover from far more errors, for a wide variety of error-correcting codes, than achievable before. The style of the exposition is crisp and the enormous amount of information on combinatorial results, polynomial time list decoding algorithms, and applications is presented in well structured form.

*Scientific and Technical Books in Print* Cambridge University Press

Active touch can be described as the control of the position and movement of tactile sensing systems to facilitate information gain. In other words, it is finding out about the world by reaching out and exploring—sensing by ‘touching’ as opposed to ‘being touched’. In this Research Topic (with cross-posting in both Behavioural Neuroscience and Neurorobotics) we welcomed articles from junior researchers on any aspect of active touch. We were especially interested in articles on the behavioral, physiological and neuronal underpinnings of active touch in a range of species (including humans) for submission to *Frontiers in Behavioural Neuroscience*. We also welcomed articles describing robotic

systems with biomimetic or bio-inspired tactile sensing systems for publication in *Frontiers in Neurorobotics*.

Principles of Communications Springer Science & Business Media

This book was written as a first treatment of statistical communication theory and communication systems at a senior graduate level. The only formal prerequisite is a knowledge of elementary calculus; however, some familiarity with linear systems and transform theory will be helpful.

Chapter 1 is introductory and contains no substantial technical material. Chapter 2 is an elementary introduction to probability theory at a nonrigorous and non abstract level. It is essential to the remainder of the book but may be skipped (or reviewed hastily) by any student who has taken a one-semester undergraduate course in probability.

Chapter 3 is a brief treatment of random processes and spectral analysis. It includes an introduction to shot noise (Sections 3.14-3.17) which is not subsequently used explicitly. Chapter 4 considers linear systems with random inputs. It includes a considerable amount of material on narrow-band systems and on

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the representation of random processes. Chapter 5 treats the matched filter and the linear least mean-squared-error filter at an elementary level but in some detail. Numerous examples are provided throughout the book. Many of these are of an elementary nature and are intended merely to illustrate textual material. A reasonable number of problems of varying difficulty are provided. Instructors who adopt the text for classroom use may obtain a Solutions Manual for most of the problems by writing to the author.

#### Wireless Communications

Springer Science & Business Media

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.

#### **Technical Books in Print**

Important new insights into how various components and systems evolved. Premised on the idea that one cannot know a science without knowing its history, *History of Wireless* offers a lively new treatment that introduces previously unacknowledged pioneers and developments, setting a new standard for understanding the evolution of this important technology. Starting with the background-magnetism, electricity, light, and Maxwell's Electromagnetic Theory-this book offers new insights into the initial theory and experimental exploration of wireless. In addition to the well-known contributions of Maxwell, Hertz, and Marconi, it examines work done by

Heaviside, Tesla, and passionate amateurs such as the Kentucky melon farmer Nathan Stubblefield and the unsung hero Antonio Meucci. Looking at the story from mathematical, physics, technical, and other perspectives, the clearly written text describes the development of wireless within a vivid scientific milieu. *History of Wireless* also goes into other key areas, including: The work of J. C. Bose and J. A. Fleming German, Japanese, and Soviet contributions to physics and applications of electromagnetic oscillations and waves Wireless telegraphic and telephonic development and attempts to achieve transatlantic wireless communications Wireless telegraphy in South Africa in the early twentieth century Antenna development in Japan: past and present Soviet quasi-optics at near-mm and sub-mm wavelengths The evolution of electromagnetic waveguides The history of phased array antennas Augmenting the typical, Marconi-centered approach, *History of Wireless* fills in the conventionally accepted story with attention to more specific, less-known discoveries and individuals, and challenges traditional assumptions about the origins and growth of wireless. This allows for a more comprehensive understanding of how various components and systems evolved. Written in a clear tone with a broad

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scientific audience in mind, this exciting and thorough treatment is sure to become a classic in the field.