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2021-11-26

LOGAN JUSTICE

Concepts, Methodologies, Tools, and Applications John Wiley & Sons

Publisher Description

Advanced Optical Wireless Communication Systems Cambridge University Press

The first generation 802.11 wireless market, once struggling to expand, has spread from largely vertical applications such as healthcare, point of sale, and inventory management to become much more broad as a general networking technology being deployed in offices, schools, hotel guest rooms, airport departure areas, airplane cabins, entertainment venues, coffee shops, restaurants, and homes. This has led to the tremendous growth of new sources of IEEE 802.11 devices. IEEE 802.11 equipment is now moving into its second stage, where the wireless LAN is being treated as a large wireless communication system. As a system, there is more to consider than simply the communication over the air between a single access point and the associated mobile devices. This has led to innovative changes in the equipment that makes up a wireless LAN. The IEEE 802.11 Handbook: A Designer's Companion, Second Edition is for the system network architects, hardware engineers and software engineers at the heart of this second stage in the evolution of 802.11 wireless LANs and for those designers that will take 802.11 to the next stage.

Wireless and Cellular Communications Pearson Education India

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.

MIMO Channels and Networks John Wiley & Sons

This book will provide a comprehensive technical guide covering fundamentals, recent advances and open issues in wireless communications and networks to the readers. The objective of the book is to serve as a valuable reference for students, educators, scientists, faculty members, researchers, engineers and research strategists in these rapidly evolving fields and to encourage them to actively explore these broad, exciting and rapidly evolving research areas.

Wireless Communications and Networks Artech House

This book describes the technologies involved in all aspects of a large networking system and how the various devices can interact and communicate with each other. Using a bottom up approach the authors demonstrate how it is feasible, for instance, for a cellular device user to communicate, via the all-purpose TCP/IP protocols, with a wireless notebook computer user, traversing all the way through a base station in a cellular wireless network (e.g., GSM, CDMA), a public switched network (PSTN), the Internet, an intranet, a local area network (LAN), and a wireless LAN access point. The information bits, in travelling through this long path, are processed by numerous disparate communication technologies. The authors also describe the technologies involved in infrastructure less wireless networks.

Lee's Essentials of Wireless Communications Cambridge University Press

This one-stop reference provides the state-of-the-art theory, key strategies, protocols, deployment aspects, standardization activities and experimental studies of communication and networking technologies for the smart grid. Expert authors provide all the essential information researchers need to progress in the field and to allow power systems engineers to optimize their communication systems.

Wireless Communication Networks and Systems, Global Edition Cambridge University Press

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.

Wireless Communications: Principles And Practice, 2/E McGraw Hill Professional
Wireless Communications and NetworksRecent AdvancesBoD – Books on Demand

Wireless Communications & Networking John Wiley & Sons

ON-THE-MONEY GUIDE TO WIRELESS If you have to navigate the dangerous waters of wireless, do it with a tech-savvy, predictive manual at your side. That's Lee's Essentials of Wireless Communications, written by the top-selling author in telecom, William C.Y. Lee. Smart wireless choices are not always obvious; a good deal of conventional wisdom is wrong. This expert guide helps you understand and compare CDM, SSB, CT-2, GSM, TDMA, IDEN (MIRS), LEO-Globalstar v. Iridium, IMT-2000, PCS, Wireless Local Loop (WLL), Wideband v. Narrowband, Analog Cellular, Digital Cellular, Radio Capacity, AMPS, ESS, Propagation System Strength Prediction, CDPD, UPR, and Two-Way Paging. Here's everything you need for making wireless decisions that work today (and will still work tomorrow) -- from insider data on coming user demands to the tools for writing glitch-free, foresighted technical specs.

Current Status and Future Trends McGraw Hill Professional

Receive comprehensive instruction on the fundamentals of wireless security from three leading international voices in the field Security in Wireless Communication Networks delivers a thorough grounding in wireless communication security. The distinguished authors pay particular attention to wireless specific issues, like authentication protocols for various wireless communication networks, encryption algorithms and integrity schemes on radio channels, lessons learned from designing secure wireless systems and standardization for security in wireless systems. The book addresses how engineers, administrators, and others involved in the design and maintenance of wireless networks can achieve security while retaining the broadcast nature of the system, with all of its inherent harshness and interference. Readers will learn: A comprehensive introduction to the background of wireless communication network security, including a broad overview of wireless communication networks, security services, the mathematics crucial to the subject, and cryptographic techniques An exploration of wireless local area network security, including Bluetooth security, Wi-Fi security, and body area network security An examination of wide area wireless network security, including treatments of 2G, 3G, and 4G Discussions of future development in wireless security, including 5G, and vehicular ad-hoc network security Perfect for undergraduate and graduate students in programs related to wireless communication, Security in Wireless Communication Networks will also earn a place in the libraries of professors, researchers, scientists, engineers, industry managers, consultants, and members of government security agencies who seek to improve their understanding of wireless security protocols and practices.

Wireless Communications and Networking Elsevier

"This multiple-volume publications exhibits the most up-to-date collection of research results and recent discoveries in the transfer of knowledge access across the globe"--Provided by publisher.

Wireless Networking John Wiley & Sons

Combines the latest trends in spectrum sharing, both from a research and a standards/regulation/experimental standpoint Written by noted professionals from academia, industry, and research labs, this unique book provides a comprehensive treatment of the principles and architectures for spectrum sharing in order to help with the existing and future spectrum crunch

issues. It presents readers with the most current standardization trends, including CEPT / CEE, eLSA, CBRS, MulteFire, LTE-Unlicensed (LTE-U), LTE WLAN integration with Internet Protocol security tunnel (LWIP), and LTE/Wi-Fi aggregation (LWA), and offers substantial trials and experimental results, as well as system-level performance evaluation results. The book also includes a chapter focusing on spectrum policy reinforcement and another on the economics of spectrum sharing. Beginning with the historic form of cognitive radio, Spectrum Sharing: The Next Frontier in Wireless Networks continues with current standardized forms of spectrum sharing, and reviews all of the technical ingredients that may arise in spectrum sharing approaches. It also looks at policy and implementation aspects and ponders the future of the field. White spaces and data base-assisted spectrum sharing are discussed, as well as the licensed shared access approach and cooperative communication techniques. The book also covers reciprocity-based beam forming techniques for spectrum sharing in MIMO networks; resource allocation for shared spectrum networks; large scale wireless spectrum monitoring; and much more. Contains all the latest standardization trends, such as CEPT / ECC, eLSA, CBRS, MulteFire, LTE-Unlicensed (LTE-U), LTE WLAN integration with Internet Protocol security tunnel (LWIP) and LTE/Wi-Fi aggregation (LWA) Presents a number of emerging technologies for future spectrum sharing (collaborative sensing, cooperative communication, reciprocity-based beamforming, etc.), as well as novel spectrum sharing paradigms (e.g. in full duplex and radar systems) Includes substantial trials and experimental results, as well as system-level performance evaluation results Contains a dedicated chapter on spectrum policy reinforcement and one on the economics of spectrum sharing Edited by experts in the field, and featuring contributions by respected professionals in the field world wide Spectrum Sharing: The Next Frontier in Wireless Networks is highly recommended for graduate students and researchers working in the areas of wireless communications and signal processing engineering. It would also benefit radio communications engineers and practitioners.

Smart Grid Communications and Networking IEEE Standards Association

The papers appearing in this book were originally presented at the 9 Virginia Tech/MPRG Symposium on Wireless Personal Communications. The Symposium on Wireless Communications, which is an annual event for Virginia Tech, was held on June 2-4, 1999. The 1999 symposium was co-sponsored by MPRG, the Division of Continuing Education, University International Programs, and the MPRG Industrial Affiliate Sponsors. Much of the success of our annual symposium, as well as the success of MPRG's research program, is due to the support of our industrial affiliates. Their support allows us to serve the wireless community through research, education and outreach programs. At the time of the 1999 symposium, the MPRG affiliates program included the following organizations: Army Research Office, AT&T Corporation, Bellsouth Cellular Corporation, Comcast Cellular Communications, Inc. , Datum, Inc. , Ericsson, Inc. , Grayson Wireless, Hewlett-Packard Company, Honeywell, Inc. , Hughes Electronics Corporation, ITT Industries, Lucent Technologies, Motorola, National Semiconductor, Nokia, Nortel Networks, Qualcomm, Inc. , Radix Technologies, Inc. , Salient 3 Communications, Samsung Advanced Institute of Technology, Southwestern Bell, Tantivy Communications, Tektronix, Inc. , Telcordia Technologies, Texas Instruments, TRW, Inc. , and the Watkins-Johnson Company As can be seen from the Table of Contents, the papers included in this book are divided into six sections. The first five of these correspond to symposium sessions, and

cover the following topics: Propagation and Channel Modeling (4 papers), Antennas (6 papers), Multiuser Detection (3 papers), Radio Systems and Technology (4 papers), and Wireless Data (3 papers).

RF Engineering for Wireless Networks National Academies Press

Networking Explained 2e offers a comprehensive overview of computer networking, with new chapters and sections to cover the latest developments in the field, including voice and data wireless networking, multimedia networking, and network convergence. Gallo and Hancock provide a sophisticated introduction to their subject in a clear, readable format. These two top networking experts answer hundreds of questions about hardware, software, standards, and future directions in network technology. Wireless networks Convergence of voice and data Multimedia networking

Wireless Sensor Networks John Wiley & Sons

For one-semester, undergraduate/graduate-level courses in Advanced Networking, Wireless Communications, Wireless Data Communications, and Wireless Technology, in departments of Electrical Engineering, Computer Science, Information Science, and Computer Engineering. This comprehensive, well-organized text covers wireless communication and networks, and the rapidly growing associated technologies the most exciting areas in the overall communications field. It explores the key topics in the following general categories: technology and architecture, network type, design approaches, and applications. An emphasis on specific wireless standards reflects the importance of such standards in defining the available products and future research directions in this field. *Coverage of basic networking concepts in Part One and Appendices - appropriate for students with little or no background in data communications. *Consistent discussion of technology and architecture - illustrates how a small collection of ingredients - including frequency band, signal encoding techniques, error correction technique, and network architecture - characterize and differentiate wireless communication and networking

Wireless Communications John Wiley & Sons

The definitive assessment of how wireless communications will evolve over the next 20 years. Predicting the future is an essential element for almost everyone involved in the wireless industry. Manufacturers predict the future when they decide on product lines to develop or research to undertake, operators when they buy licences and deploy networks, and academics when they set PhD topics. Wireless Communications: The Future provides a solid, clear and well-argued basis on which to make these predictions. Starting with a description of the current situation and a look at how previous predictions made in 2000 have fared, the book then provides the contributions of six eminent experts from across the wireless industry. Based on their input and a critical analysis of the current situation, it derives detailed forecasts for 2011 through to 2026. This leads to implications across all of the different stakeholders in the wireless industry and views on key developments. Presents clear and unambiguous predictions, not a range of scenarios from which the user has to decide Includes chapters covering existing wireless systems which provide solid tutorial material across a wide range of wireless devices Offers a range of views of the future from high profile contributors in various areas of the industry and from around the globe, including contributions from Vodafone and Motorola Provides a comprehensive guide to current technologies, offering keen analysis of key drivers, end user needs and key economic and regulatory constraints This book,

compiled by a renowned author with a track record of successful prediction, is an essential read for strategists working for wireless manufacturers, wireless operators and device manufacturers, regulators and professionals in the telecoms industry, as well as those studying the topic or with a general interest in the future of wireless communications.

The Next Frontier in Wireless Networks Prentice Hall

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 Area 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

Channel Modeling and Systems Engineering Cambridge University Press

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. The wireless pioneer William C.Y. Lee, technology leader and author of the #1 book on wireless communications, has now completely updated his classic. This all-new, in-depth engineering guide for both voice and data services, Wi-Fi, 3G, WiMAX, and more, is essential reading for anyone working in this dynamic field. On-the-ground engineering coverage of B2G, 3G, B3G, 4G, and all other major systems Specifications for AMPS, GSM Family, iDEN, PHS, cdmaOne, WCDMA, HSDPA, CDMA2000, EV-DO, EV-DV, TD-SCDMA, Wi-Fi, WiMAX, etc. Antenna specifications for base stations and handsets Introduction of new technologies -- CS-OFDM, MIMO, LDPC, Turbo Code, CCK Code, RFID, etc. Engineering parameters for portable systems, Wi-Fi, Bluetooth, UWB, ZigBee, IR, and more Intelligent Cells -- All IP, in-building systems, etc. Intelligent Networks -- All IP, ad hoc, mesh, sensor, etc. Switches -- Circuit, Packet, ATM, Soft, etc. INSIDE: INSIGHTFUL, IN-DEPTH ENGINEERING * Introduction to Wireless Communications * Introduction to Cellular Systems * Specification of Analog

Cellular Systems * Specification of Digital Cellular Systems * Specification of Newly Mobile Systems * Specification of WLAN and WMAN Systems * Cell Coverage and Antennas * Cochannel Interference * Types of Noncochannel Interference * Frequency Management and Channel Assignment * Handoffs and Dropped Calls * Operational Technology and Techniques * Switching and Traffic * Data Links and Microwaves * System Evaluations * Intelligent Cell Concept * Intelligent and All-IP Networks * Mobile Communications-Related Topics * 4G Perspectives

Algorithms and Protocols for Wireless and Mobile Ad Hoc Networks John Wiley & Sons

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

The Evolution of Untethered Communications Pearson Education

Fully revised and updated version of the successful "Advanced Wireless Communications" Wireless communications continue to attract the attention of both research community and industry. Since the first edition was published significant research and industry activities have brought the fourth generation (4G) of wireless communications systems closer to implementation and standardization. "Advanced Wireless Communications" continues to provide a comparative study of enabling technologies for 4G. This second edition has been revised and updated and now includes additional information on the components of common air interface, including the area of space time coding, multicarrier modulation especially OFDM, MIMO, cognitive radio and cooperative transmission. Ideal for students and engineers in research and development in the field of wireless communications, the second edition of Advanced Wireless Communications also gives an understanding to current approaches for engineers in telecomm operators, government and regulatory institutions. New features include: Brand new chapter covering linear precoding in MIMO channels based on convex optimization theory. Material based on game theory modelling encompassing problems of adjacent cell interference, flexible spectra sharing and cooperation between the nodes in ad hoc networks. Presents and discusses the latest schemes for interference suppression in ultra wide band (UWB) cognitive systems. Discusses the cooperative transmission and more details on positioning.