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1 Overview of Wireless Communications 1 1.1 History of Wireless Communications 1 1.2 Wireless Vision 4 1.3 Technical Issues 6 1.4 Current Wireless Systems 8 1.4.1 Cellular Telephone Systems 8 1.4.2 Cordless Phones 13 1.4.3 Wireless Local Area Networks 15 1.4.4 Wide Area Wireless Data Services 16 1.4.5 Broadband Wireless Access 17 1.4.6 Paging Systems 17

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physical layer wireless communication theory and their implementation in wireless systems. This textbook takes a uni?ed view of the fundamentals of wireless communication and explains the web of concepts underpinning these advances at a level accessible to an audience with a basic background in probability and digital communication.

Systems Wireless Communications - Cambridge University Press

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Cambridge U nive rsit y Pre ss 978-0-521-84527-4 - Fundamentals of Wireless Communication David Tse and Pramod Viswanath Frontmatter More information

Fundamentals of Wireless Communication

T1 - Wireless communications. T2 - Principles and practice, solutions manual. AU - Rong, Zhigang. AU - Rappaport, Theodore S. PY - 1996. Y1 - 1996. KW - Wireless communication systems. KW - Mobile communication systems. KW - Telecommunication systems. M3 - Book. SN - 9780134852027. SN - 0134852028. BT - Wireless communications. PB - Prentice Hall

Wireless communications: Principles and practice ...

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Publisher Description

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 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.

A comprehensive introduction to the basic principles, design techniques and analytical tools of wireless communications.

"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.

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

An accessible, comprehensive and coherent treatment of MIMO communication, drawing on ideas from information theory and signal processing.

This comprehensive treatment of network information theory and its applications provides the first unified coverage of both classical and recent results. With an approach that balances the introduction of new models and new coding techniques, readers are guided through Shannon's point-to-point information theory, single-hop networks, multihop networks, and extensions to distributed computing, secrecy, wireless communication, and networking. Elementary mathematical tools and techniques are used throughout, requiring only basic knowledge of probability, whilst unified proofs of coding theorems are based on a few simple lemmas, making the text accessible to newcomers. Key topics covered include successive cancellation and superposition coding, MIMO wireless communication, network coding, and cooperative relaying. Also covered are feedback and interactive communication, capacity approximations and scaling laws, and asynchronous and random access channels. This book is ideal for use in the classroom, for self-study, and as a reference for researchers and engineers in industry and academia.

Using a systems framework, this textbook clearly explains how individual elements contribute to the overall performance of a radio system.

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