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TOPICS: Wireless Systems begins with  
a discussion of FDMA systems and  
follows with the evolution through  
TDMA, CDMA, and SDMA techniques.

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This book provides a self-motivating introduction to wireless communications; it presents topics in a manner consistent with their natural evolution, based on the principle of increasing spectral efficiency of the radio transmission.

TOPICS: Wireless Systems begins with a discussion of FDMA systems and follows with the evolution through TDMA, CDMA, and SDMA techniques. Engineering principles required for each multiple access strategy are presented parallel to it. For electrical engineers and others involved in wireless communications.

This text provides a comprehensive introduction to wireless communications, unraveling these

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techniques in an order consistent with the evolution of spectral utilization of the radio channel. Modern Wireless Communication begins with a discussion of FDMA systems and traces the progress of wireless communication through TDMA, CDMA, and SDMA techniques, while simultaneously presenting the engineering principles required for each multiple access strategy.

For courses in Wireless Communication. This text provides a self-motivating introduction to wireless communications; it presents topics in a manner consistent with their natural evolution, based on the principle of increasing spectral efficiency of the radio transmission. Wireless Systems begins with a discussion of FDMA systems and



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follows the evolution through TDMA, CDMA, and SDMA techniques.

Engineering principles required for each multiple access strategy are presented parallel with it.

A groundbreaking book from Simon Haykin, setting out the fundamental ideas and highlighting a range of future research directions.

Offers the most complete, up-to-date coverage available on the principles of digital communications. Focuses on basic issues, relating theory to practice wherever possible.

Numerous examples, worked out in detail, have been included to help the reader develop an intuitive grasp of the theory. Topics covered include the sampling process, digital modulation techniques, error-control

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coding, robust quantization for pulse-code modulation, coding speech at low bit radio, information theoretic concepts, coding and computer communication. Because the book covers a broad range of topics in digital communications, it should satisfy a variety of backgrounds and interests, and offers a great deal of flexibility for teaching the course. The author has included suggested course outlines for courses at the undergraduate or graduate levels.

Wireless telecommunications is a key technology sector with tremendous opportunities for growth and development around the world. Recent years have seen an explosion in terms of the available wireless technologies such as mobile cellular networks for voice and packet data,

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wireless local area networks, Bluetooth, and so on. Yet, the wireless revolution is very nascent and the 21st century is going to see tremendous diversification of wireless applications in 3G and 4G cellular networks such as rich multimedia-integrated voice-video communication, video-conferencing-based interactive services, multiuser gaming, and strategic surveillance for defence. The book comprehensively covers the fundamental technological advances that have led to progress in the area of wireless communication systems in recent years. Salient Features • Strong emphasis on ad-hoc networks and new trends in mobile/wireless communication • Introduces 3G/4G standards such as HSDPA, LTE, WiMAX to help students understand practical aspects •

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Demonstrates a deep theoretical understanding of network analysis along with its real-world applications

- Detailed description of radio propagation over wireless channel and its limitations
- Problem-solving-based approach to enhance understanding
- Blend of analytical and simulation-based problems and examples for better understanding of concepts
- Pedagogy includes Over 90 illustrations Over 34 Solved Examples Over 103 Practice Questions

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,

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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

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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.

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.

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## Principles of Mobile Communication

provides an authoritative treatment of the fundamentals of mobile communications, one of the fastest growing areas of the modern telecommunications industry. The book stresses the fundamentals of mobile communications engineering that are important for the design of any mobile system. Less emphasis is placed on the description of existing and proposed wireless standards. This focus on fundamental issues should be of benefit not only to students taking formal instruction but also to practising engineers who are likely to already have a detailed familiarity with the standards and are seeking to deepen their knowledge of this important field. The book stresses mathematical modeling and analysis, rather than providing a qualitative

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overview. It has been specifically developed as a textbook for graduate level instruction and a reference book for practising engineers and those seeking to pursue research in the area. The book contains sufficient background material for the novice, yet enough advanced material for a sequence of graduate level courses. Principles of Mobile Communication treats a variety of contemporary issues, many of which have been treated before only in the journals. Some material in the book has never appeared before in the literature. The book provides an up-to-date treatment of the subject area at a level of detail that is not available in other books. Also, the book is unique in that the whole range of topics covered is not presently available in any other book. Throughout the



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book, detailed derivations are provided and extensive references to the literature are made. This is of value to the reader wishing to gain detailed knowledge of a particular topic.

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.

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