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Er. Prof. Simon Haykin is Professor of Electrical Engineering; noted for his pioneering work in Adaptive Signal Processing with emphasis on applications to Radar Engineering and Telecom Technology. He is currently Distinguished University Professor at McMaster University in Hamilton, Ontario, Canada.. He received BSc (First-Class Honours); Ph.D., and DSc., degrees-all in Electrical Engineering . . .

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 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 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.

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, 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 • 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

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.

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.

An introductory treatment of communication theory as applied to the transmission of information-bearing signals with attention given to both analog and digital communications. Chapter 1 reviews basic concepts. Chapters 2 through 4 pertain to the characterization of signals and systems. Chapters 5 through 7 are concerned with transmission of message signals over communication channels. Chapters 8 through 10 deal with noise in analog and digital communications. Each chapter (except chapter 1) begins with introductory remarks and ends with a problem set. Treatment is self-contained with numerous worked-out examples to support the theory. · Fourier Analysis · Filtering and Signal Distortion · Spectral Density and Correlation · Digital Coding of Analog Waveforms · Intersymbol Interference and Its Cures · Modulation Techniques · Probability Theory and Random Processes · Noise in Analog Modulation · Optimum Receivers for Data Communication

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 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.

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