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Performance of communication under fading Lec 1 | MIT
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reviews virtually every important new wireless standard and technological development. He illustrates each key concept with practical examples, thoroughly explained and solved step by step.

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 telecommunications is a key technology sector with tremendous opportunities for growth and development around

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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

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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

This book provides a comprehensive view of green communications considering all areas of ICT including wireless and wired networks. It analyses particular concepts

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and practices, addressing holistic approaches in future networks considering a system perspective. It makes full use of tables, illustrations, performance graphs, case studies and examples making it accessible for a wide audience.

Written by award-winning engineers whose research has been sponsored by the U.S. National Science Foundation (NSF), IBM, and Cisco's University Research Program, *Wireless Sensor Networks: Principles and Practice* addresses everything product developers and technicians need to know to navigate the field. It provides an all-inclusive examina

This book will provide a comprehensive technical guide covering fundamentals, recent advances and open issues in

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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.

The Definitive, Comprehensive Guide to Cutting-Edge Millimeter Wave Wireless Design □ This is a great book on mmWave systems that covers many aspects of the technology targeted for beginners all the way to the advanced users. The authors are some of the most credible scholars I know of who are well respected by the industry. I highly recommend studying this book in detail. □ Ali Sadri, Ph.D., Sr.

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Director, Intel Corporation, MCG mmWave Standards and Advanced Technologies Millimeter wave (mmWave) is today's breakthrough frontier for emerging wireless mobile cellular networks, wireless local area networks, personal area networks, and vehicular communications. In the near future, mmWave products, systems, theories, and devices will come together to deliver mobile data rates thousands of times faster than today's existing cellular and WiFi networks. In Millimeter Wave Wireless Communications, four of the field's pioneers draw on their immense experience as researchers, entrepreneurs, inventors, and consultants, empowering engineers at all levels to succeed with mmWave. They deliver exceptionally clear and useful guidance for newcomers, as well as the first complete desk reference for design experts.

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The authors explain mmWave signal propagation, mmWave circuit design, antenna designs, communication theory, and current standards (including IEEE 802.15.3c, Wireless HD, and ECMA/WiMedia). They cover comprehensive mmWave wireless design issues, for 60 GHz and other mmWave bands, from channel to antenna to receiver, introducing emerging design techniques that will be invaluable for research engineers in both industry and academia. Topics include Fundamentals: communication theory, channel propagation, circuits, antennas, architectures, capabilities, and applications Digital communication: baseband signal/channel models, modulation, equalization, error control coding, multiple input multiple output (MIMO) principles, and hardware architectures Radio wave propagation

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characteristics: indoor and outdoor applications

Antennas/antenna arrays, including on-chip and in-package antennas, fabrication, and packaging Analog circuit design:

mmWave transistors, fabrication, and transceiver design

approaches Baseband circuit design: multi-gigabit-per-

second, high-fidelity DAC and ADC converters Physical layer:

algorithmic choices, design considerations, and impairment solutions; and how to overcome clipping, quantization, and

nonlinearity Higher-layer design: beam adaptation protocols, relaying, multimedia transmission, and multiband

considerations 60 GHz standardization: IEEE 802.15.3c for WPAN, Wireless HD, ECMA-387, IEEE 802.11ad, Wireless Gigabit Alliance (WiGig)

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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

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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.

"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

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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

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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.

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