

Digital Communication over Fading Channels

A Unified Approach to Performance Analysis

Marvin K. Simon

Mohamed-Slim Alouini



Digital Communication Over Fading Channels A Unified Approach To Performance Analysis

John B. Anderson, Arne Svensson



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Digital Communication Over Fading Channels Marvin K. Simon, Mohamed-Slim Alouini, 2000-08-14 A unified presentation broad coverage single volume convenience This timesaving reference provides a unified approach to the performance analysis of digital communication systems over generalized fading channels Employing alternative forms of such classical mathematical functions as the Gaussian Q function the Marcum Q function and the incomplete Gamma function the book expresses communication system error probability performance in terms of the moment generation function MGF of the fading process This MGF based approach provides the unifying backbone of the book Digital Communication over Fading Channels discusses in detail coherent differentially coherent and noncoherent communication systems as well as a large variety of fading channel models typical of communication links found in the real world Coverage also includes single and multichannel reception and in the case of the latter a large variety of diversity types For each combination of communication type channel fading model and diversity type the average bit error rate and or symbol error rate is expressed in an easy to evaluate form Special features include Important results previously scattered over many publications now in a single volume Simplified results heretofore available only in complex forms Extremely broad coverage of topics Explores practical applications including the problem of optimum combining in the presence of co channel interference **Digital**

Communication over Fading Channels Marvin K. Simon, Mohamed-Slim Alouini, 2004-12-06 The four short years since Digital Communication over Fading Channels became an instant classic have seen a virtual explosion of significant new work on the subject both by the authors and by numerous researchers around the world Foremost among these is a great deal of progress in the area of transmit diversity and space time coding and the associated multiple input multiple output MIMO channel This new edition gathers these and other results previously scattered throughout numerous publications into a single convenient and informative volume Like its predecessor this Second Edition discusses in detail coherent and noncoherent communication systems as well as a large variety of fading channel models typical of communication links found in the real world Coverage includes single and multichannel reception and in the case of the latter a large variety of diversity types The moment generating function MGF based approach for performance analysis introduced by the authors in the first edition and referred to in literally hundreds of publications still represents the backbone of the book's presentation Important features of this new edition include An all new comprehensive chapter on transmit diversity space time coding and the MIMO channel focusing on performance evaluation Coverage of new and improved diversity schemes Performance analyses of previously known schemes in new and different fading scenarios A new chapter on the outage probability of cellular mobile radio systems A new chapter on the capacity of fading channels And much more Digital Communication over Fading Channels Second Edition is an indispensable resource for graduate students researchers investigating these systems and practicing engineers responsible for evaluating their performance **Digital Communication over Fading Channels** Marvin K.

Simon, Mohamed-Slim Alouini, 2005-02-11 The four short years since Digital Communication over Fading Channels became an instant classic have seen a virtual explosion of significant new work on the subject both by the authors and by numerous researchers around the world. Foremost among these is a great deal of progress in the area of transmit diversity and space time coding and the associated multiple input multiple output MIMO channel. This new edition gathers these and other results previously scattered throughout numerous publications into a single convenient and informative volume. Like its predecessor this Second Edition discusses in detail coherent and noncoherent communication systems as well as a large variety of fading channel models typical of communication links found in the real world. Coverage includes single and multichannel reception and in the case of the latter a large variety of diversity types. The moment generating function MGF based approach for performance analysis introduced by the authors in the first edition and referred to in literally hundreds of publications still represents the backbone of the book's presentation. Important features of this new edition include: An all new comprehensive chapter on transmit diversity space time coding and the MIMO channel focusing on performance evaluation. Coverage of new and improved diversity schemes. Performance analyses of previously known schemes in new and different fading scenarios. A new chapter on the outage probability of cellular mobile radio systems. A new chapter on the capacity of fading channels. And much more. Digital Communication over Fading Channels Second Edition is an indispensable resource for graduate students, researchers investigating these systems and practicing engineers responsible for evaluating their performance.

Multicarrier Communications Lie-Liang Yang, 2009-01-21 Benefiting from both time domain and frequency domain signal processing techniques, multicarrier systems have the potential for achieving high spectral efficiency, high flexibility, and low complexity wireless communications. Multicarrier techniques therefore constitute the promising techniques for implementation of future generations of wideband, broadband, and ultra wideband systems. Multicarrier Communications offers comprehensive and in depth evaluation of numerous topics in the area covering the fundamental principles of spread spectrum and multicarrier CDMA as well as more advanced topics such as multiuser detection, MUD, multiuser transmitter preprocessing, MUP, MIMO, and space time processing. It examines OFDM and various multicarrier CDMA within a unified framework and provides analytical approaches and formulas for error performance evaluation of numerous multicarrier systems. Examines MUD and MUP in parallel to illustrate the strong duality between receiver optimization and transmitter optimization. Comprehensively establishes the theory of noncoherent MUD and noncoherent interference suppression. Details the body of knowledge on MIMO theory and space time multicarrier communications. Contains tables, diagrams, and figures to illustrate the performance results. Practicing electrical engineers and researchers in wireless communications will find Multicarrier Communications an invaluable guide. It will also be of interest to senior undergraduate and graduate students on wireless communications courses.

Wireless Communications Bin Tian, 2024-05-06 This book presents the basic concepts, principles, and technologies of wireless communication. The author

focuses on the characteristics of the channel the performance degradation and various technologies to improve the performance of the wireless communication system The upper technologies involved in building wireless performance are also discussed and a prototype of the system is presented

Orthogonal Frequency Division Multiplexing with Diversity for Future Wireless Systems Khoa N. Le, 2012 The book examines several aspects of Orthogonal Frequency Division Multiplexing OFDM employing linear diversity techniques such as inter carrier interference bit error rate peak to average power and inter block interference It should be a useful reference

Handbook on Advancements in Smart Antenna Technologies for Wireless Networks Sun, Chen, Cheng, Jun, Ohira, Takashi, 2008-07-31 Provides information on smart antenna technologies featuring contributions with in depth descriptions of terminologies concepts methods and applications related to smart antennas in various wireless systems

Multi-Carrier Technologies for Wireless Communication Carl R. Nassar, Bala Natarajan, Zhiqiang Wu, David A. Wiegandt, S. Alireza Zekavat, Steve Shattil, 2006-07-06 Multi carrier technologies have emerged as important instruments in telecommunications OFDM is in the forefront with its adoption by the IEEE 802.11 standards committee and the European HYPERLAN standards group Following OFDM MC CDMA is also demonstrating considerable promise when compared to competing technologies According to the authors these technologies are just the beginning in the coming multi carrier revolution In Multi Carrier Technologies for Wireless Communication the authors explain how a common multi carrier platform is being designed for DS CDMA TDMA OFDM and MC CDMA systems Findings are presented which show how this multi carrier platform enhances network capacity and probability of error performance Specific results include 1 innovation in multi carrier technologies that are enabling them to become an integral part of TDMA and DS CDMA systems and 2 the design of multi carrier systems to overcome PAPR problems in e.g. OFDM Multi Carrier Technologies for Wireless Communication is an important book for engineers who work with DS CDMA TDMA OFDM or MC CDMA systems and are seeking new ways of exploiting the wireless medium based on a smarter signal processing

Signal Processing for Mobile Communications Handbook Mohamed Ibnkahla, 2004-08-16 In recent years a wealth of research has emerged addressing various aspects of mobile communications signal processing New applications and services are continually arising and future mobile communications offer new opportunities and exciting challenges for signal processing The Signal Processing for Mobile Communications Handbook provides

Proceedings of the 1st International Congress on Engineering Technologies Suhil Kiwan, Mohammad Banat, 2021-09-30 This first volume in the Mosharaka for Research and Studies International Conference Proceedings series P MIC contains peer reviewed papers presented at the 1st International Congress on Engineering Technologies EngiTek 2020 This event was held remotely on 16-18 June 2020 and hosted by the Faculty of Engineering Jordan University of Science Technology Irbid Jordan The conference represented a major forum for professors students and professionals from all over the world to present their latest research results and to exchange new ideas and practical experiences in the most cutting edge areas of the field of engineering technologies Topics

covered include electrical engineering computer science and electronics

MIMO Wireless Networks Bruno Clerckx, Claude Oestges, 2013-01-23 This book is unique in presenting channels techniques and standards for the next generation of MIMO wireless networks Through a unified framework it emphasizes how propagation mechanisms impact the system performance under realistic power constraints Combining a solid mathematical analysis with a physical and intuitive approach to space time signal processing the book progressively derives innovative designs for space time coding and precoding as well as multi user and multi cell techniques taking into consideration that MIMO channels are often far from ideal Reflecting developments since the first edition was published this book has been thoroughly revised and now includes new sections and five new chapters respectively dealing with receiver design multi user MIMO multi cell MIMO MIMO implementation in standards and MIMO system level evaluation Extended introduction to multi dimensional propagation including polarization aspects Detailed and comparative description of physical models and analytical representations of single and multi link MIMO channels covering the latest standardized models Thorough overview of space time coding techniques covering both classical and more recent schemes under information theory and error probability perspectives Intuitive illustration of how real world propagation affects the capacity and the error performance of MIMO transmission schemes Detailed information theoretic analysis of multiple access broadcast and interference channels In depth presentation of multi user diversity resource allocation and non linear MU MIMO precoding techniques with perfect and imperfect channel knowledge Extensive coverage of cooperative multi cell MIMO OFDMA networks including network resource allocation optimization coordinated scheduling beamforming and power control interference alignment joint processing massive and network MIMO Applications of MIMO and Coordinated Multi Point CoMP in LTE LTE A and WiMAX Theoretical derivations and results contrasted with practical system level evaluations highlighting the performance of single and multi cell MIMO techniques in realistic deployments

Wireless Broadband Networks David T. Wong, Peng-Yong Kong, Ying-Chang Liang, Kee C. Chua, 2009-03-30 An introduction to theories and applications in wireless broadband networks As wireless broadband networks evolve into future generation wireless networks it is important for students researchers and professionals to have a solid understanding of their underlying theories and practical applications Divided into two parts the book presents Enabling Technologies for Wireless Broadband Networks orthogonal frequency division multiplexing and other block based transmissions multi input multi output antenna systems ultra wideband medium access control mobility resource management routing protocols for multi hop wireless broadband networks radio resource management for wireless broadband networks and quality of service for multimedia services Systems for Wireless Broadband Networks long term evolution cellular networks wireless broadband networking with WiMax wireless local area networks wireless personal area networks and convergence of networks Each chapter begins with an introduction and ends with a summary appendix and a list of resources for readers who would like to explore the subjects in greater depth The book is an ideal resource for researchers in electrical engineering and computer

science and an excellent textbook for electrical engineering and computer science courses at the advanced undergraduate and graduate levels

Radio Communications Alessandro Bazzi, 2010-04-01 In the last decades the restless evolution of information and communication technologies ICT brought to a deep transformation of our habits The growth of the Internet and the advances in hardware and software implementations modified our way to communicate and to share information In this book an overview of the major issues faced today by researchers in the field of radio communications is given through 35 high quality chapters written by specialists working in universities and research centers all over the world Various aspects will be deeply discussed channel modeling beamforming multiple antennas cooperative networks opportunistic scheduling advanced admission control handover management systems performance assessment routing issues in mobility conditions localization web security Advanced techniques for the radio resource management will be discussed both in single and multiple radio technologies either in infrastructure mesh or ad hoc networks

Wireless Communications Keith Q. T. Zhang, 2015-10-13 Understand the mechanics of wireless communication *Wireless Communications Principles Theory and Methodology* offers a detailed introduction to the technology Comprehensive and well rounded coverage includes signaling transmission and detection including the mathematical and physics principles that underlie the technology s mechanics Problems with modern wireless communication are discussed in the context of applied skills and the various approaches to solving these issues offer students the opportunity to test their understanding in a practical manner With in depth explanations and a practical approach to complex material this book provides students with a clear understanding of wireless communication technology

Coded Modulation Systems John B. Anderson, Arne Svensson, 2003-01-31 The attitudes behind coded modulation mark a paradigm shift that occurred after 1975 which led to a major awakening of interest in coding theory and practice

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Wireless Communications Systems and Networks Mohsen Guizani, 2006-04-11 Since the early 1990s the wireless communications field has witnessed explosive growth The wide range of applications and existing new technologies nowadays stimulated this enormous growth and encouraged wireless applications The new wireless networks will support heterogeneous traffic consisting of voice video and data multimedia This necessitated looking at new wireless generation technologies and enhance its capabilities This includes new standards new levels of Quality of Service QoS new sets of protocols and architectures noise reduction power control performance enhancement link and mobility management nomadic and wireless networks security and ad hoc architectures Many of these topics are covered in this textbook The aim of this book is research and development in the area of broadband wireless communications and sensor networks It is intended for researchers that need to learn more and do research on these topics But it is assumed that the reader has some background about wireless communications and networking In addition to background in each of the chapters an in depth analysis is presented to help our readers gain more R D insights in any of these areas The book is comprised of 22 chapters written by a group of well known experts in their respective fields Many of them have great

industrial experience mixed with proper academic background

Computational Intelligence Anupam Shukla, B. K. Murthy, Nitasha Hasteer, Jean-Paul Van Belle, 2023-02-15 The book constitutes the peer reviewed proceedings of the 2nd International Conference on Information Technology InCITE 2022 The Next Generation Technology Summit The theme of the conference is Computational Intelligence Automate your World The volume is a conglomeration of research papers covering interdisciplinary research and in depth applications of computational intelligence deep learning machine learning artificial intelligence data science enabling technologies for IoT blockchain and other futuristic computational technologies The volume covers various topics that span cutting edge collaborative technologies and areas of computation The content would serve as a rich knowledge repository on information communication technologies neural networks fuzzy systems natural language processing data mining warehousing big data analytics cloud computing security social networks and intelligence decision making and modeling information systems and IT architectures The book will be useful to researchers practitioners and policymakers working in information technology

Space-Time Coding Theory in Optical Wireless MIMO Systems Xizheng Ke, 2025-06-16 This book is divided into 12 chapters including introduction multi aperture transmit receive technology in turbulent atmosphere channel model and channel capacity orthogonal space time block coding layered space time coding hybrid space time coding space time trellis coding differential space time coding unitary space time coding adaptive layered space time coding performance analysis of indoor MIMO VLC system and detection algorithm of MIMO technology The key technologies of wireless optical MIMO systems are introduced and the basic framework of space time coding of wireless optical MIMO systems is proposed

Ultra-Wideband Radio Technologies for Communications, Localization and Sensor Applications Reiner Thomä, Reinhard Knöchel, Juergen Sachs, Ingolf Willms, Thomas Zwick, 2013-03-13 Ultra Wideband Radio UWB earmarks a new radio access philosophy and exploits several GHz of bandwidth It promises high data rate communication over short distances as well as innovative radar sensing and localization applications with unprecedented resolution Fields of application may be found among others in industry civil engineering surveillance and exploration for security and safety measures and even for medicine The book considers the basics and algorithms as well as hardware and application issues in the field of UWB radio technology for communications localization and sensing based on the outcome of DFG's priority funding program Ultra Wideband Radio Technologies for Communications Localization and Sensor Applications UKoLoS

Smart Antennas Thomas Kaiser, 2005 Smart Antennas State of the Art brings together the broad expertise of 41 European experts in smart antennas They provide a comprehensive review and an extensive analysis of the recent progress and new results generated during the last years in almost all fields of smart antennas and MIMO multiple input multiple output transmission The following represents a summarized table of content Receiver space time processing antenna combining reduced rank processing robust beamforming subspace methods synchronization equalization multiuser detection iterative methods Channel propagation measurements and sounding

modelling channel estimation direction of arrival estimation subscriber location estimation Transmitter space time block coding channel side information unified design of linear transceivers ill conditioned channels MIMO MAC strategies Network Theory channel capacity network capacity multihop networks Technology antenna design transceivers demonstrators and testbeds future air interfaces Applications and Systems 3G system and link level aspects MIMO HSDPA MIMO WLAN UMTS implementation issues This book serves as a reference for scientists and engineers who need to be aware of the leading edge research in multiple antenna communications an essential technology for emerging broadband wireless systems

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