

Propagation Channel Characterization, Parameter Estimation, and Modeling for Wireless Communications

Xuefeng Yin Xiang Cheng

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Propagation Characterization Parameter Estimation Communications

**Deep Gupta, Vipin Kamble, Vishal
Satpute, Ashwin Kothari**



Propagation Characterization Parameter Estimation Communications:

Propagation Channel Characterization, Parameter Estimation, and Modeling for Wireless Communications Xuefeng Yin, Xiang Cheng, 2016-09-13 A comprehensive reference giving a thorough explanation of propagation mechanisms channel characteristics results measurement approaches and the modelling of channels Thoroughly covering channel characteristics and parameters this book provides the knowledge needed to design various wireless systems such as cellular communication systems RFID and ad hoc wireless communication systems It gives a detailed introduction to aspects of channels before presenting the novel estimation and modelling techniques which can be used to achieve accurate models To systematically guide readers through the topic the book is organised in three distinct parts The first part covers the fundamentals of the characterization of propagation channels including the conventional single input single output SISO propagation channel characterization as well as its extension to multiple input multiple output MIMO cases Part two focuses on channel measurements and channel data post processing Wideband channel measurements are introduced including the equipment technology and advantages and disadvantages of different data acquisition schemes The channel parameter estimation methods are then presented which include conventional spectral based estimation the specular path model based high resolution method and the newly derived power spectrum estimation methods Measurement results are used to compare the performance of the different estimation methods The third part gives a complete introduction to different modelling approaches Among them both scattering theoretical channel modelling and measurement based channel modelling approaches are detailed This part also approaches how to utilize these two modelling approaches to investigate wireless channels for conventional cellular systems and some new emerging communication systems This three part approach means the book caters for the requirements of the audiences at different levels including readers needing introductory knowledge engineers who are looking for more advanced understanding and expert researchers in wireless system design as a reference Presents technical explanations illustrated with examples of the theory in practice Discusses results applied to 4G communication systems and other emerging communication systems such as relay CoMP and vehicle to vehicle rapid time variant channels Can be used as comprehensive tutorial for students or a complete reference for engineers in industry Includes selected illustrations in color Program downloads available for readers Companion website with program downloads for readers and presentation slides and solution manual for instructors Essential reading for Graduate students and researchers interested in the characteristics of propagation channel or who work in areas related to physical layer architectures air interfaces navigation and wireless sensing

Flying Ad Hoc Networks Jingjing Wang, Chunxiao Jiang, 2022-02-10 Relying on unmanned autonomous flight control programs unmanned aerial vehicles UAVs equipped with radio communication devices have been actively developed around the world Given their low cost flexible maneuvering and unmanned operation UAVs have been widely used in both civilian operations and military missions including environmental

monitoring emergency communications express distribution even military surveillance and attacks for example Given that a range of standards and protocols used in terrestrial wireless networks are not applicable to UAV networks and that some practical constraints such as battery power and no fly zone hinder the maneuverability capability of a single UAV we need to explore advanced communication and networking theories and methods for the sake of supporting future ultra reliable and low latency applications Typically the full potential of UAV network s functionalities can be tapped with the aid of the cooperation of multiple drones relying on their ad hoc networking in network communications and coordinated control Furthermore some swarm intelligence models and algorithms conceived for dynamic negotiation path programming formation flight and task assignment of multiple cooperative drones are also beneficial in terms of extending UAV s functionalities and coverage as well as of increasing their efficiency We call the networking and cooperation of multiple drones as the terminology flying ad hoc network FANET and there indeed are numerous new challenges to be overcome before the idespread of so called heterogeneous FANETs In this book we examine a range of technical issues in FANETs from physical layer channel modeling to MAC layer resource allocation while also introducing readers to UAV aided mobile edge computing techniques

Communication Technologies for Vehicles Juan Moreno García-Loygorri, Antonio Pérez-Yuste, César Briso, Marion Berbineau, Alain Pirovano, Jaizki Mendizábal, 2018-04-27 This book constitutes the proceedings of the 13th International Workshop on Communication Technologies for Vehicles Nets4Cars Nets4Trains Nets4Aircraft 2018 held in Madrid Spain in May 2018 The 17 full papers presented together with 2 demo papers in this volume were carefully reviewed and selected from numerous submissions The volume features contributions in the theory or practice of intelligent transportation systems ITS and communication technologies for Vehicles on road e g cars tracks and buses Air e g aircraft and unmanned aerial vehicles and Rail e g trains metros and trams

5G-Enabled Vehicular Communications and Networking Xiang Cheng, Rongqing Zhang, Liuqing Yang, 2018-11-09 This book investigates and reviews recent advanced techniques and important applications in vehicular communications and networking VCN from a novel perspective of the combination and integration of VCN and connected vehicles which provides a significant scientific and technical support for future 5G based VCN 5G Enabled Vehicular Communications and Networking introduces vehicular channel characteristics reviews current channel modeling approaches and then provides a new generic geometry based stochastic modeling approach for vehicle to everything V2X communications The investigation of vehicular channel measurements and modeling provides fundamental supports for the VCN system design Then this book investigates VCN vehicle combination from PHY and MAC layers respectively As for the PHY layer many advanced techniques that can be effectively applied in VCN to counter the PHY challenges are introduced including novel ICI cancellation methods index modulated OFDM differential spatial modulation and energy harvesting relaying As for the MAC layer distributed and centralized MAC designs are analyzed and compared in terms of feasibility and availability Specifically distributed congestion control D2D enabled

vehicular communications and centralized data dissemination scheduling are elaborated which can significantly improve the network performance in vehicular networks Finally considering VCN vehicle integration this book introduces several hot topic applications in vehicular networks including electric vehicles distributed data storage unmanned aerial vehicles and security and privacy which indicates the significance and development value of VCN vehicle integration in future vehicular networks and our daily life The primary audience for this book includes professionals and researchers working in the field of vehicular communications intelligent transportation systems ITS and Internet of vehicles IoV Advanced level students studying electrical engineering will also find this book useful as a secondary textbook for related courses Computational Collective Intelligence Ngoc Thanh Nguyen,Yannis Manolopoulos,Richard Chbeir,Adrianna Kozierekiewicz,Bogdan Trawiński,2022-09-21 This book constitutes the refereed proceedings of the 14th International Conference on Computational Collective Intelligence ICCCI 2022 held in Hammamet Tunisia in September 2022 The 56 full papers and 10 short papers were carefully reviewed and selected from 420 submissions The papers are grouped in topical sections on collective intelligence and collective decision making deep learning techniques natural language processing data minning and machine learning knowledge engineering and semantic web computer vision techniques social networks and intelligent systems cybersecurity and internet of things cooperative strategies for decision making and optimization computational intelligence for digital content understanding applications for industry 4 0 **Paradigm Shifts in Communication, Embedded**

Systems, Machine Learning, and Signal Processing Deep Gupta,Vipin Kamble,Vishal Satpute,Ashwin Kothari,2025-08-25 This two volume set CCIS 2490 2491 constitutes the refereed proceedings of the Third International Conference on Paradigm Shifts in Communication Embedded Systems Machine Learning and Signal Processing PCEMS 2024 held in Nagpur India during November 11 12 2024 The 73 full papers and 17 short papers presented in this volume were carefully reviewed and selected from 330 submissions The papers present recent research in the areas of communication antenna computer vision medical image analysis deep learning AI based systems and applications classification problem embedded system and IoT etc

Communications Engineering Desk Reference Erik Dahlman,Ed da Silva,Luis M. Correia,Philip A Chou,Mihaela van der Schaar,Ronald Kitchen,Daniel M. Dobkin,Dan Bensky,Juanita Ellis,Charles Pursell,Joy Rahman,Stefan Parkvall,Leonidas Guibas,Feng Zhao,Johan Skold,Per Beming,Alan C. Bovik,Bruce A. Fette,Keith Jack,Farid Dowla,Casimer DeCusatis,2009-03-02 A one stop desk reference for R D engineers involved in communications engineering this book will not gather dust on the shelf It brings together the essential professional reference content from leading international contributors in the field Material covers a wide scope of topics including voice computer facsimile video and multimedia data technologies A hard working desk reference providing all the essential material needed by communications engineers on a day to day basis Fundamentals key techniques engineering best practice and rules of thumb together in one quick reference sourcebook Definitive content by the leading authors in the field *A Glimpse Beyond 5G in Wireless Networks* Mohammad

Abdul Matin,2022-11-30 This book gathers the latest research findings on emerging trends in 5G and beyond wireless systems The authors present and assess different enabling technologies capabilities and anticipated communications and computing solutions for 5G and beyond Topics discussed include new frequency bands new multiple antenna systems massive D2D connectivity new network deployment and more These discussions help the readers to understand more advanced research materials for developing new ideas to make a contribution in this field for themselves This book aims to serve as a virtual and effective bridge between academic research in theory and engineering development in practice Students professional and practitioners who seek to learn the latest development in wireless technologies should find interest in this book

Developments and Advances in Defense and Security Álvaro Rocha,Teresa Guarda,2018-04-05 This book includes a selection of articles from The 2018 Multidisciplinary International Conference of Research Applied to Defense and Security MICRADS 18 held in Salinas Peninsula de Santa Elena Ecuador from April 18 to 20 2018 MICRADS is an international forum for researchers and practitioners to present and discuss the most recent innovations trends results experiences and concerns in the various areas of defense and security together with their technological development and applications The main topics covered are Information and Communication Technology in Education Computer Vision in Military Applications Engineering Analysis and Signal Processing Cybersecurity and Cyberdefense Maritime Security and Safety Strategy Geopolitics and Oceanopolitics Defense planning Leadership e leadership Defense Economics Defense Logistics Health Informatics in Military Applications Simulation in Military Applications Computer Networks Mobility and Pervasive Systems Military Marketing Military Physical Training Assistive Devices and Wearable Technology Naval and Military Engineering Weapons and Combat Systems Operational Oceanography The book is aimed at all those dealing with defense and security issues including practitioners researchers and teachers as well as undergraduate graduate master s and doctorate students

Signal Processing for 5G Fa-Long Luo,Charlie Jianzhong Zhang,2016-08-04 A comprehensive and invaluable guide to 5G technology implementation and practice in one single volume For all things 5G this book is a must read Signal processing techniques have played the most important role in wireless communications since the second generation of cellular systems It is anticipated that new techniques employed in 5G wireless networks will not only improve peak service rates significantly but also enhance capacity coverage reliability low latency efficiency flexibility compatibility and convergence to meet the increasing demands imposed by applications such as big data cloud service machine to machine M2M and mission critical communications This book is a comprehensive and detailed guide to all signal processing techniques employed in 5G wireless networks Uniquely organized into four categories New Modulation and Coding New Spatial Processing New Spectrum Opportunities and New System level Enabling Technologies it covers everything from network architecture physical layer down link and up link protocols and air interface to cell acquisition scheduling and rate adaption access procedures and relaying to spectrum allocations All technology aspects and major roadmaps of global 5G standard development and

deployments are included in the book Key Features Offers step by step guidance on bringing 5G technology into practice by applying algorithms and design methodology to real time circuit implementation taking into account rapidly growing applications that have multi standards and multi systems Addresses spatial signal processing for 5G in particular massive multiple input multiple output massive MIMO FD MIMO and 3D MIMO along with orbital angular momentum multiplexing 3D beamforming and diversity Provides detailed algorithms and implementations and compares all multicarrier modulation and multiple access schemes that offer superior data transmission performance including FBMC GFDM F OFDM UPMC SEFDM FTN MUSA SCMA and NOMA Demonstrates the translation of signal processing theories into practical solutions for new spectrum opportunities in terms of millimeter wave full duplex transmission and license assisted access Presents well designed implementation examples from individual function block to system level for effective and accurate learning Covers signal processing aspects of emerging system and network architectures including ultra dense networks UDN software defined networks SDN device to device D2D communications and cloud radio access network C RAN

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Table of Contents Propagation Characterization Parameter Estimation Communications

1. Understanding the eBook Propagation Characterization Parameter Estimation Communications
 - The Rise of Digital Reading Propagation Characterization Parameter Estimation Communications
 - Advantages of eBooks Over Traditional Books
2. Identifying Propagation Characterization Parameter Estimation Communications
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Propagation Characterization Parameter Estimation Communications
 - User-Friendly Interface
4. Exploring eBook Recommendations from Propagation Characterization Parameter Estimation Communications
 - Personalized Recommendations
 - Propagation Characterization Parameter Estimation Communications User Reviews and Ratings
 - Propagation Characterization Parameter Estimation Communications and Bestseller Lists
5. Accessing Propagation Characterization Parameter Estimation Communications Free and Paid eBooks
 - Propagation Characterization Parameter Estimation Communications Public Domain eBooks
 - Propagation Characterization Parameter Estimation Communications eBook Subscription Services
 - Propagation Characterization Parameter Estimation Communications Budget-Friendly Options

6. Navigating Propagation Characterization Parameter Estimation Communications eBook Formats
 - ePub, PDF, MOBI, and More
 - Propagation Characterization Parameter Estimation Communications Compatibility with Devices
 - Propagation Characterization Parameter Estimation Communications Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Propagation Characterization Parameter Estimation Communications
 - Highlighting and Note-Taking Propagation Characterization Parameter Estimation Communications
 - Interactive Elements Propagation Characterization Parameter Estimation Communications
8. Staying Engaged with Propagation Characterization Parameter Estimation Communications
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Propagation Characterization Parameter Estimation Communications
9. Balancing eBooks and Physical Books Propagation Characterization Parameter Estimation Communications
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Propagation Characterization Parameter Estimation Communications
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Propagation Characterization Parameter Estimation Communications
 - Setting Reading Goals Propagation Characterization Parameter Estimation Communications
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Propagation Characterization Parameter Estimation Communications
 - Fact-Checking eBook Content of Propagation Characterization Parameter Estimation Communications
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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