

Ofdm Based Broadband Wireless Networks Design And Optimization

Guowang Miao,Guocong Song



Ofdm Based Broadband Wireless Networks Design And Optimization:

OFDM-Based Broadband Wireless Networks Hui Liu,Guoqing Li,2005-11-08 OFDM based Broadband Wireless Networks covers the latest technological advances in digital broadcasting wireless LAN and mobile networks to achieve high spectral efficiency and to meet peak requirements for multimedia traffic The book emphasizes the OFDM modem air interface medium access control MAC radio link protocols and radio network planning An Instructor Support FTP site is available from the Wiley editorial department **WiMAX Network Planning and Optimization** Yan Zhang,2009-04-23 This book offers a comprehensive explanation on how to dimension plan and optimize WiMAX networks The first part of the text introduces WiMAX networks architecture physical layer standard protocols security mechanisms and highly related radio access technologies It covers system framework topology capacity mobility management handoff m **Radio Resource Management in Wireless Networks** Ekram Hossain,Mehdi Rasti,Long Bao Le,2017-04-27 Do you need to design efficient wireless communications systems This unique text provides detailed coverage of radio resource allocation problems in wireless networks and the techniques that can be used to solve them Covering basic principles and mathematical algorithms and with a particular focus on power control and channel allocation you will learn how to model analyze and optimize the allocation of resources in both physical and data link layers and for a range of different network types Both established and emerging networks are considered including CDMA and OFDMA wireless networks relay based wireless networks and cognitive radio networks Numerous exercises help you put knowledge into practice and provide the tools needed to address some of the current research problems in the field This is an essential reference whether you are a graduate student researcher or industry professional working in the field of wireless communication networks **NETWORKING 2007. Ad Hoc and Sensor Networks, Wireless Networks, Next Generation Internet** Ian F. Akyildiz,2007-04-27 This book constitutes the refereed proceedings of the 6th International IFIP TC6 Networking Conference NETWORKING 2007 held in Atlanta GA USA in May 2007 The 99 revised full papers and 30 poster papers were carefully reviewed and selected from 440 submissions The papers are organized in topical sections on ad hoc and sensor networks connectivity and coverage scheduling and resource allocation mobility and location awareness routing and key management wireless networks mesh networks mobility TCP MAC performance as well as scheduling and resource allocation next generation inte **Computing Algorithms with Applications in Engineering** V. K. Giri,Nishchal K. Verma,R. K. Patel,V. P. Singh,2020-03-02 This book collects high quality research papers presented at the International Conference on Computing Applications in Electrical Electronics Engineering held at Rajkiya Engineering College Sonbhadra India on August 30 31 2019 It provides novel contributions in computational intelligence together with valuable reference material for future research The topics covered include big data analytics IoT and smart infrastructures machine learning artificial intelligence and deep learning crowd sourcing and social intelligence natural language processing business intelligence high performance computing wireless

mobile and green communications ad hoc sensor and mesh networks SDN and network virtualization cognitive systems swarm intelligence human computer interaction network and information security intelligent control soft computing networked control systems renewable energy sources and technologies biomedical signal processing pattern recognition and object tracking and sensor devices and applications

Distributed Medium Access Control in Wireless Networks Ping Wang, Weihua Zhuang, 2013-03-23 This brief investigates distributed medium access control MAC with QoS provisioning for both single and multi hop wireless networks including wireless local area networks WLANs wireless ad hoc networks and wireless mesh networks For WLANs an efficient MAC scheme and a call admission control algorithm are presented to provide guaranteed QoS for voice traffic and at the same time increase the voice capacity significantly compared with the current WLAN standard In addition a novel token based scheduling scheme is proposed to provide great flexibility and facility to the network service provider for service class management Also proposed is a novel busy tone based distributed MAC scheme for wireless ad hoc networks and a collision free MAC scheme for wireless mesh networks respectively taking the different network characteristics into consideration The proposed schemes enhance the QoS provisioning capability to real time traffic and at the same time significantly improve the system throughput and fairness performance for data traffic as compared with the most popular IEEE 802.11 MAC scheme

Sharing RF Spectrum with Commodity Wireless Technologies Jan Kruys, Luke Qian, 2011-08-09 Much energy has been spent on the subject of spectrum scarcity that would threaten to stunt the growth of wireless technologies and services This concern comes on the heels of the great successes of both cellular communications and consumer oriented communications like Wi-Fi and Bluetooth that have changed the way people use computers and communications and that have led to the creation of large new markets for products and services The response of many spectrum regulators throughout the world in addressing these concerns has been to consider releasing more spectrum for unlicensed or for shared use An example is the spectrum that is released by the transition to digital TV the frequencies freed up are destined in part to new applications that would be license exempt A possible beneficiary of new spectrum releases would be the smart grid a networked application of digital sensor and control technology to the energy delivery segment of the energy utility industry This policy has heightened the interests of all involved in spectrum sharing and many proposals are being considered or brought forward However theory in this area is scarce and practice proves resistive of quick solutions A case in point is RLAN radar spectrum sharing in the 5GHz range six years after the ITU-R allocated this shared spectrum the rules for sharing as well as the means to verify compliance with these rules are not fully mature Another recent development is the interest in spectrum pricing and trading which tend to focus on the economic aspects of spectrum sharing at the expense understanding of the limitations as well as the technical possibilities of spectrum sharing

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

Next Generation Mobile Communications Ecosystem Saad Z. Asif, 2011-02-25 Taking an in depth look at the mobile communications ecosystem this book covers the two key components i e Network and End User Devices in detail Within the network the sub components of radio access network transmission network core networks services and OSS are discussed component level discussion also features antenna diversity and interference cancellation techniques for smart wireless devices The role of various standard development organizations and industry forums is highlighted throughout The ecosystem is strengthened with the addition of the Technology Management TM component dealing mostly with the non technical aspects of the underlying mobile communications industry Various aspects of TM including technology development innovation management knowledge management and more are also presented Focuses on OFDM based radio technologies such as LTE WiMAX as well as MBWA Mobile Broadband Wireless Access Provides a vital addition to the momentum of EVDO and its migration towards LTE Emphasis on radio core operation architectural and performance aspects of two next generation technologies EPS and WiMAX Includes discussion of backhaul technologies and alternatives as well as issues faced by operators switching to 3G and Next Generation Mobile Networks Cutting edge research on emerging Gigabit Ethernet Microwave Radios and Carrier Ethernet transport technologies Next Generation Mobile Communications Ecosystem serves as a practical reference for telecom associated academia and industry to understanding mobile communications in a holistic manner as well as assisting in preparing graduate students and fresh graduates for the marketplace by providing them with information not only on state of the art technologies and standards but also on TM By effectively focusing on the key domains of TM this book will further assist companies with improving their competitiveness in the long run Importantly it will provide students engineers researchers technology managers and executives with extensive details on various emerging mobile wireless standards and technologies

Femtocells Jie Zhang, Guillaume de la Roche, 2011-09-26 This book provides an in depth guide to femtocell technologies In this book the authors provide a comprehensive and organized explanation of the femtocell concepts architecture air interface technologies and challenging issues arising from the deployment of femtocells such as interference mobility management and self organization The book details a system level simulation based methodology addressing the key concerns of femtocell deployment such as interference between femto and macrocells and the performance of both femto and macrocell layers In

addition key research topics in interference modeling and mitigation mobility management and Self Organizing Network SON are highlighted The authors also introduce HNB HeNB standardization in 3GPP Furthermore access methods closed open and hybrid applications timing synchronization health issues business models and security are discussed The authors also provide a comparison between femtocells and other indoor coverage techniques such as picocells repeaters distributed antenna systems and radio over fiber Lastly both CDMA and OFDMA based femtocells are covered Key Features Provides a comprehensive reference on femtocells and related topics Offers the latest research results on femtocells based on simulation and measurements Gives an overview of indoor coverage techniques such as picocells repeaters distributed antenna systems radio over fiber and femtocells Includes chapters on femtocell access network architecture air interface technologies GSM UMTS HSPA WiMAX and LTE femtocell simulation interference analysis and mitigation in femto macrocell networks mobility management in femto macrocell networks femtocell self organization and other key challenges such as timing synchronization and security faced by femtocell deployment Points to over 240 references from 3GPP The Femto Forum journals and conference proceedings This book will be an invaluable guide for RF engineers from operators R D engineers from femtocells hardware manufacturers employees from regulatory bodies radio network planners academics and researchers from universities and research organizations Students undertaking wireless communications courses will also find this book insightful

Cognitive Communications David Grace,Honggang Zhang,2012-07-25 This book discusses in depth the concept of distributed artificial intelligence DAI and its application to cognitive communications In this book the authors present an overview of cognitive communications encompassing both cognitive radio and cognitive networks and also other application areas such as cognitive acoustics The book also explains the specific rationale for the integration of different forms of distributed artificial intelligence into cognitive communications something which is often neglected in many forms of technical contributions available today Furthermore the chapters are divided into four disciplines wireless communications distributed artificial intelligence regulatory policy and economics and implementation The book contains contributions from leading experts academia and industry in the field Key Features Covers the broader field of cognitive communications as a whole addressing application to communication systems in general e g cognitive acoustics and Distributed Artificial Intelligence DAI Illustrates how different DAI based techniques can be used to self organise the radio spectrum Explores the regulatory policy and economic issues of cognitive communications in the context of secondary spectrum access Discusses application and implementation of cognitive communications techniques in different application areas e g Cognitive Femtocell Networks CFN Written by experts in the field from both academia and industry Cognitive Communications will be an invaluable guide for research community PhD students researchers in the areas of wireless communications and development engineers involved in the design and development of mobile portable and fixed wireless systems wireless network design engineer Undergraduate and postgraduate students on elective courses in electronic

engineering or computer science and the research and engineering community will also find this book of interest *Design, Deployment and Performance of 4G-LTE Networks* Ayman ElNashar, Mohamed A. El-saidny, Mahmoud Sherif, 2014-03-13 This book provides an insight into the key practical aspects and best practice of 4G LTE network design performance and deployment Design Deployment and Performance of 4G LTE Networks addresses the key practical aspects and best practice of 4G networks design performance and deployment In addition the book focuses on the end to end aspects of the LTE network architecture and different deployment scenarios of commercial LTE networks It describes the air interface of LTE focusing on the access stratum protocol layers PDCP RLC MAC and Physical Layer The air interface described in this book covers the concepts of LTE frame structure downlink and uplink scheduling and detailed illustrations of the data flow across the protocol layers It describes the details of the optimization process including performance measurements and troubleshooting mechanisms in addition to demonstrating common issues and case studies based on actual field results The book provides detailed performance analysis of key features enhancements such as C DRX for Smartphones battery saving CSFB solution to support voice calls with LTE and MIMO techniques The book presents analysis of LTE coverage and link budgets alongside a detailed comparative analysis with HSPA Practical link budget examples are provided for data and VoLTE scenarios Furthermore the reader is provided with a detailed explanation of capacity dimensioning of the LTE systems The LTE capacity analysis in this book is presented in a comparative manner with reference to the HSPA network to benchmark the LTE network capacity The book describes the voice options for LTE including VoIP protocol stack IMS Single Radio Voice Call Continuity SRVCC In addition key VoLTE features are presented Semi persistent scheduling SPS TTI bundling Quality of Service QoS VoIP with C DRX Robust Header Compression RoHC and VoLTE Vocoders and De Jitter buffer The book describes several LTE and LTE A advanced features in the evolution from Release 8 to 10 including SON eICIC CA CoMP HetNet Enhanced MIMO Relays and LBS This book can be used as a reference for best practices in LTE networks design and deployment performance analysis and evolution strategy Conveys the theoretical background of 4G LTE networks Presents key aspects and best practice of 4G LTE networks design and deployment Includes a realistic roadmap for evolution of deployed 3G 4G networks Addresses the practical aspects for designing and deploying commercial LTE networks Analyzes LTE coverage and link budgets including a detailed comparative analysis with HSPA References the best practices in LTE networks design and deployment performance analysis and evolution strategy Covers infrastructure sharing scenarios for CAPEX and OPEX saving Provides key practical aspects for supporting voice services over LTE Written for all 4G engineers designers working in networks design for operators network deployment engineers R D engineers telecom consulting firms measurement performance tools firms deployment subcontractors senior undergraduate students and graduate students interested in understanding the practical aspects of 4G LTE networks as part of their classes research or projects **LTE, WiMAX and WLAN Network Design, Optimization and Performance Analysis** Leonhard

Korowajczuk,2011-08-22 A technological overview of LTE and WiMAX LTE WiMAX and WLAN Network Design Optimization and Performance Analysis provides a practical guide to LTE and WiMAX technologies introducing various tools and concepts used within In addition topics such as traffic modelling of IP centric networks RF propagation fading mobility and indoor coverage are explored new techniques which increase throughput such as MIMO and AAS technology are highlighted and simulation network design and performance analysis are also examined Finally in the latter part of the book Korowajczuk gives a step by step guide to network design providing readers with the capability to build reliable and robust data networks By focusing on LTE and WiMAX this book extends current network planning approaches to next generation wireless systems based on OFDMA providing an essential resource for engineers and operators of fixed and wireless broadband data access networks With information presented in a sequential format LTE WiMAX and WLAN Network Design Optimization and Performance Analysis aids a progressive development of knowledge complementing latter graduate and postgraduate courses while also providing a valuable resource to network designers equipment vendors reference material operators consultants and regulators Key Features One of the first books to comprehensively explain and evaluate LTE Provides an unique explanation of the basic concepts involved in wireless broadband technologies and their applications in LTE WiMAX and WLAN before progressing to the network design Demonstrates the application of network planning for LTE and WiMAX with theoretical and practical approaches Includes all aspects of system design and optimization such as dynamic traffic simulations multi layered traffic analysis statistical interference analysis and performance estimations **Advances in**

Mobile and Wireless Communications István Frigyes,Janos Bito,Péter Bakki,2008-05-31 Lectori Salutem This is another book among the myriads dealing with wireless communications The reader might be aware this topic is really among bestsellers in technology bestsellers in technology itself and that in technical literature Communications is one of the leading techniques in information society and mobile wireless communications is one among the maybe not more than two with optics the second leading techniques in communications Development of wireless communications was and is really specular in the last decade of the 20th and first decade of the 21st century Such topics as MIMO wireless networking security in the technological field new business models in the service providing field various applications in the users side to mention a few only were undergoing an unprecedented evolution So it is not surprising that the number of conferences and the number of books in this field grows and grows in a nearly unbounded way *Ofdm Based Relay Systems for Future Wireless*

Communications Milica Pejanovic-Djurisic,Enis Kocan,Ramjee Prasad,2022-09-01 Relay systems have become a subject of intensive research interest over the recent years as it is recognized that they can improve performances and extend the coverage area of wireless communication systems Special attention has been dedicated to them since the proposal appeared for their implementation in mobile cellular systems Numerous researches conducted after that proposal have enabled incorporation of OFDM based relay systems in both accepted standards for IMT Advanced systems Nowadays researches are

ongoing with the aim to define new solutions for performance improvement of the standardized OFDM relay systems for cellular networks and one of the interesting solutions is implementation of subcarrier permutation SCP at the relay R station. The book OFDM based relay systems for future wireless communications presents a comprehensive research results in analyzing behavior and performance of the OFDM based relay systems with SCP Dual hop relay scenario with three communication terminals and no direct link between the source S and the destination D has been analyzed as it is compliant with the accepted solutions for IMT Advanced systems. The book includes performance analysis and performance comparison of OFDM based amplify and forward AF relay systems with fixed gain FG amplify and forward AF relay systems with variable gain VG decode and forward DF relay systems each including two SCP schemes known to maximize the system capacity and or improve the bit error rate BER performances. Performance comparisons have enabled definition of optimal solutions for the future wireless communication systems in a given conditions and for the given optimality criteria. OFDM based relay systems for future wireless communications contains recent research results in this area and is ideal for the academic staff and master research students in area of mobile communication systems as well as for the personnel in communication industry.

Personal Satellite Services Prashant Pillai, Rajeev Shorey, Erina Ferro, 2013-03-21 This book constitutes the thoroughly refereed post conference proceedings of the 4th International ICST Conference on Personal Satellite Services PSATS 2012 held in Bradford UK in March 2012. The 22 revised full papers presented together with 4 poster sessions were carefully reviewed and selected from various submissions. The papers cover topics such as radio resource management, spectrum interference management and antenna design, mobility and security and protocol performance in satellite networks.

Network Optimization Julia Pahl, Torsten Reiners, Stefan Voß, 2011-09-15 This book constitutes the refereed proceedings of the 5th International Conference on Network Optimization INOC 2011 held in Hamburg Germany in June 2011. The 65 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers highlight recent developments in network optimization and are organized in the following topical sections: theoretical problems, uncertainty, graph theory and network design, network flows, routing and transportation and further optimization problems and applications, energy oriented network design, telecom applications, location, maritime shipping and graph theory.

Broadband Fixed Wireless Access Marc Engels, Frederik Petre, 2006-12-06 This introductory volume provides a systematic overview of WiMAX technology, demystifying the technology and providing technical advice on various system trade offs. Much of the material is based on the practical experiences of the authors in building new systems. Coverage includes the IEEE 802.16 standard, a tutorial on implementation and tips on controlling cost of WiMAX network ownership. This is a must read book for professionals involved in broadband fixed wireless access.

Energy and Spectrum Efficient Wireless Network Design Guowang Miao, Guocong Song, 2015 Provides the fundamental principles and practical tools needed to design next generation wireless networks that are both energy and spectrum efficient.

Mobile Communications Handbook Jerry D.

Gibson, 2017-12-19 With 26 entirely new and 5 extensively revised chapters out of the total of 39 the Mobile Communications Handbook Third Edition presents an in depth and up to date overview of the full range of wireless and mobile technologies that we rely on every day This includes but is not limited to everything from digital cellular mobile radio and evolving personal communication systems to wireless data and wireless networks Illustrating the extraordinary evolution of wireless communications and networks in the last 15 years this book is divided into five sections Basic Principles provides the essential underpinnings for the wide ranging mobile communication technologies currently in use throughout the world Wireless Standards contains technical details of the standards we use every day as well as insights into their development Source Compression and Quality Assessment covers the compression techniques used to represent voice and video for transmission over mobile communications systems as well as how the delivered voice and video quality are assessed Wireless Networks examines the wide range of current and developing wireless networks and wireless methodologies Emerging Applications explores newly developed areas of vehicular communications and 60 GHz wireless communications Written by experts from industry and academia this book provides a succinct overview of each topic quickly bringing the reader up to date but with sufficient detail and references to enable deeper investigations Providing much more than a just the facts presentation contributors use their experience in the field to provide insights into how each topic has emerged and to point toward forthcoming developments in mobile communications

The book delves into Ofdm Based Broadband Wireless Networks Design And Optimization. Ofdm Based Broadband Wireless Networks Design And Optimization is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Ofdm Based Broadband Wireless Networks Design And Optimization, encompassing both the fundamentals and more intricate discussions.

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