Juha Heiskala
John Terry, Ph.D.

OFDM Wireless LANs: A Theoretical and Practical Guide

Ofdm Wireless Lans A Theoretical And Practical Guide

Ke Gong,Zhisheng Niu

Ofdm Wireless Lans A Theoretical And Practical Guide:

OFDM Wireless LANs John Terry,Juha Heiskala,2002 Annotation Deploy and optimize your wireless LAN using the new standard for broadband wireless communication OFDM A comprehensive reference written by two experts who helped create the OFDM specifications A detailed practical guide to OFDM WLANs does not exist requiring readers to seek out multiple sources of information such as white papers and research notes Detailed explanations of the concepts and algorithms behind OFDM context that is missing from the two OFDM books currently available This book explains OFDM WLAN basics including components of OFDM and multicarrier WLAN standards It provides a practical approach to OFDM by including software and hardware examples and detailed implementation explanations OFDM Multicarrier Wireless Networks A Practical Approach defines and explains the mathematical concepts behind OFDM necessary for successful OFDM WLAN implementations Juha Heiskala is a research engineer at Nokia Research Center in Irving TX Heiskala is active in the IEEE 802 11 standards bodies and has been tasked with developing the 802 11a system simulation on several software platforms He is the inventor co inventor of three pending patents in the area of OFDM LANs and co designed with Dr John Terry the modulation and coding scheme for achieving 100 Mbps speeds within currently allocated band specifications for OFDM WLANs John Terry Ph D is a senior research engineer at Nokia Research Center He is currently managing the OFDM modulation and coding project in the HSA group Dr Terry has published several white papers given numerous presentations on wireless communications and generated four patents related to OFDM WLANs He has 10 years of experience working in wireless communications including tenures at NASA Glen Research Center and Texas Instruments **Space-time Codes and MIMO Systems** Mohinder Jankiraman,2004 Annotation This resource takes professionals step by step from the basics of MIMO through various coding techniques to critical topics such as multiplexing and packet transmission Practical examples are emphasized and mathematics is kept to a minimum so readers can quickly and thoroughly understand the essentials of MIMO The book takes a systems view of MIMO technology that helps professionals analyze the benefits and drawbacks of any MIMO system BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved **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 *Handbook of Communications Security* F. Garzia,2013 Communications represent a strategic sector for privacy protection and for personal company national and international security The interception damage or lost of information during communication can generate material and non material economic damages from both a personal and collective point of view The purpose of this book is to give the reader information relating to all aspects of communications security beginning at the base ideas and building to reach the most advanced and updated concepts The book will be of interest to integrated system designers telecommunication designers system engineers system analysts security managers technicians intelligence personnel security personnel police army private investigators scientists graduate and postgraduate students and anyone that needs to communicate in a secure way **Energy and Bandwidth-Efficient Wireless Transmission** Wei Gao,2017-02-10 This book introduces key modulation and predistortion techniques for approaching power and spectrum efficient transmission for wireless communication systems The book presents a combination of theoretical principles practical implementations and actual tests It focuses on power and spectrally efficient modulation and transmission techniques in the portable wireless communication systems and introduces currently developed and designed RF transceivers in the latest wireless markets Most materials design examples and design strategies used are based on the author s two decades of work in the digital communication fields especially in the areas of the digital modulations demodulations digital signal processing and linearization of power amplifiers The applications of these practical products and equipment cover the satellite communications on earth station systems microwave communication systems 2G GSM and 3G WCDMA mobile communication systems and 802 11 WLAN systems **Attachment Transmission in Wireless Networks** Lu Wang,Kaishun Wu,Mounir Hamdi,2014-07-08 This brief presents the novel PHY layer technique attachment transmission which provides an extra control panel with minimum overhead In addition to describing the basic mechanisms of this technique this brief also illustrates the challenges the theoretical model implementation and numerous applications of attachment transmission Extensive experiments demonstrate that attachment transmission is capable of exploiting and

utilizing channel redundancy to deliver control information and thus it can provide significant support to numerous higher layer applications The authors also address the critical problem of providing cost effective coordination mechanisms for wireless design The combination of new techniques and implementation advice makes this brief a valuable resource for researchers and professionals interested in wireless penetration and communication networks *Energy Efficiency in Communications and Networks* Sameh Gobriel,2012-04-04 The topic of Energy Efficiency in Communications and Networks attracts growing attention due to economical and environmental reasons The amount of power consumed by information and communication technologies ICT is rapidly increasing as well as the energy bill of service providers According to a number of studies ICT alone is responsible for a percentage which varies from 2% to 10% of the world power consumption Thus driving rising cost and sustainability concerns about the energy footprint of the IT infrastructure Energy efficiency is an aspect that until recently was only considered for battery driven devices Today we see energy efficiency becoming a pervasive issue that will need to be considered in all technology areas from device technology to systems management This book is seeking to provide a compilation of novel research contributions on hardware design architectures protocols and algorithms that will improve the energy efficiency of communication devices and networks and lead to a more energy proportional technology infrastructure **Advanced Mimo Systems** Kosai Raoof,Huaibei Zhou,2009 Wireless Communications and Networks Jiann-An Tsai,Hequan Wu,Society of Photo-optical Instrumentation Engineers,2004 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature **VLSI Circuits and Systems** ,2005 *Channel Allocation in Wireless Networks* Clive William Reeves Cooper,2004 *TENCON 2004* ,2004 *WIRELESS NETWORK COEXISTENCE* Robert Morrow,2004-01-22 This is the only book that addresses the integration of Bluetooth and 802 11 technologies showing how to deploy both technologies to create profitable and flexible wireless solutions The author compares and contrasts Bluetooth and 802 11 functionality using the results to determine which part each should play in a fully integrated wireless LAN environment Illustrates how implementing combined wireless solutions can save money and increase performance Provides decision makers with the tools they need to make better informed choices about wireless technologies Given the hype surrounding Bluetooth and 802 11 it s difficult to get a practical understanding of what the two services offer For a complete and efficient wireless LAN solution both technologies must be integrated *Defense Transformation and Network-centric Systems* ,2007 **Personal Wireless Communications** ,2003 **5 GHz CMOS LNA/receiver Design for Wireless Local Area Networks** John Shackelford Fairbanks,2003 **MOBICOM ...** ,2004 **The 14th IEEE 2003 International Symposium on Personal, Indoor, and Mobile Radio Communications** Ke Gong,Zhisheng Niu,2003 **Integrated Circuit and System Design** ,2004 Sequential Resource Allocation in

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