

Ofdm Wireless Lans A Theoretical And Practical Guide

Improving the Performance of Wireless LANs Wireless LANs Demystified Securing Wireless LANs OFDM Wireless LANs The Basics of 802.11 Wireless LANs 802.11 Wireless LAN Fundamentals A Field Guide to Wireless LANs Wireless LANs Wireless LANs and Bluetooth Wireless LANs Build Your Own Wireless LAN Wireless Lans And Home Networks: Connecting Offices And Homes - Proceedings Of The International Conference Emerging Technologies in Wireless LANs Wireless LANs The World Wide Wi-Fi Advanced Wireless LAN All in a Wi-Fi Network Implementing Successful Wireless LANs Wireless Personal and Local Area Networks 802.11 Wireless Networks Nurul Sarkar Jaidev Bhola Gilbert Held John Terry Frank M. Groom Pejman Roshan Thomas Maufer Jim Geier Yang Xiao Walter Bruce, III James Trulove Benny Bing Benny Bing Raymond P. Wenig Teik-Kheong Tan Dan Hallmen Benny Bing Timothy Zimmerman Axel Sikora Alan Holt

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while there are countless books on wireless networks few actually quantify the key performance limiting factors of wireless local area networks wlans and describe various methods for improving wlan performance fulfilling these needs improving the performance of wireless lans a practical guide provides both theoretical background and empirical

within the next few years 40 50 of all companies will attempt to execute a wireless application strategy bringing the number of wireless data users to a whopping 36 million by 2003 wireless lans are now considered the best bet for wirelessly enabling business since the technology can be quickly and inexpensively deployed using existing infrastructure shows how to wirelessly enable employees to work from any location within the office as well as home and outside locations discusses the different wireless protocols and standardes 802 11 bluetooth wap cdma 3g etc covers all the benefits of wireless lans with specific cost reductions and support solutions includes insider information about deploying microsoft net related wireless lan applications

wireless lans will enable small teams and communities to communicate via their mobile devices without cables this new technology will facilitate communication in small businesses teams such as in hospitals on construction sites warehouses etc held provides a comprehensive guide to the implementation planning and monitoring of all aspects of wireless lan security in small offices small to medium business smbs securing wireless lans is timely in addressing the security issues of this important new technology and equips its readers with the tools they need to make the appropriate choice for their own situation this ideal introduction to wireless lan technology provides a broad overview of all the different issues and practical guidance of how to make wireless lans secure at home as well as in small offices explains how to monitor

wireless lans configure different types of wireless equipment discusses which technologies are best for different situations and requirements gives practical hints and advice on how to implement them

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

helping to understand the architecture and implentation of wireless local area networks this book delves

into the evolution of the various spread spectrum techniques and explains the many forms of signal modulation including frequency amplitude and phase this is a must read for everyone who needs to sharpen their understanding of wireless communications from students to business managers

master the basics in designing building and managing a cisco aironet wlan master the basics of wireless lans with this concise design and deployment guide

finally an 802.11 deployment guide for business and home use that demystifies the alphabet soup of IEEE standards and explains the features and benefits of each with regards to speeds and feeds

with the increased popularity and acceptance of mobile communication wireless lans provide unique benefits to many organizations this book supplies readers with a slew of interesting topics including how and why to migrate from proprietary solutions to the 802.11 standard

wireless local area network LAN and bluetooth are two phenomena in wireless networks they have become very successful in the current market and are deployed in many different environments however there are still many unresolved issues such as mobility management support quality of service QoS support etc the primary focus of this book is to present these two hot and rapidly evolving areas as well as issues and solutions involved with them it is this realisation that has motivated the editing of this book the goal of the book is to serve as a reference for wireless LAN and bluetooth in this book the authors review important developments and new strategies for these topics important features and limitations of methods and models are identified consequently this book can serve as a useful reference for researchers educators graduate students as well as practitioners in the field of wireless networks

get the definitive real world professional s guide to the hottest wireless lan technologies available wireless lans end to end is a comprehensive look at the technology from the standpoint of the it professional the book goes above and beyond a simple re hashing of the specification to provide practical implementation information on wlan technology with special coverage of 802 11b and wlan planning configuration implementation troubleshooting and security considerations special sections on a wlan site survey industry leaders state the key to implementing an effective efficient wlan that performs the same as wired lan is a site survey and wlan security are also included this book is part of the end to end series a new series dedicated to cutting edge technologies designed to provide proven solutions real world tips and best practices the end to end series takes a no techno babble modular approach in explaining cutting edge wireless technology special features include case studies real life implementations and wireless decision tree

learn how to plan and install a wireless lan at your home business campus or church using easily accessible off the shelf parts and 12 simple projects to walk readers through some of the hardest steps

the 2001 international conference on wireless lans and home networks showcased some of the world s most dynamic presenters including dr leonard keinrock inventor of internet technology as well as leading experts from 20 countries who dealt with the latest technological breakthroughs this book is a collection of technical papers presented at the conference it comprises 32 high quality papers that have been carefully selected from more than 100 submissions

provides the key practical considerations for deploying wireless lans and a solid understanding of the emerging technologies

a complete guide to the ins and outs of field based computing this book covers planning implementing and operating a successful wireless lan it also includes coverage of radio wave infrared and microwave networks

your success guide to the next wireless revolution the next watershed innovation in wireless technology is here ieee 802 11 wireless local area networks lans recent studies from idc indicate that the wi fi wireless lan market will likely account for ninety percent of projected lan equipment revenues by 2005 a trend that promises to spill over into home wireless networks yet this amazing growth has also created confusion which version of 802 11 is best for vendors and end users what about solutions such as the a g and a b combinations of the 802 11 standards in world wide wi fi technological trends and business strategies teik kheong tk tan and benny bing provide a clear accessible road map of the wi fi wireless lan market unlike most books on wireless local area networks wlans this must have resource explains both the business and technology of wlans and offers ready to use tactics and strategies for thriving in this lucrative field along the way you ll also gain insight into the emerging wi fi standards world wide wi fi presents key technological issues related to the design and deployment of wi fi wireless lans an insider s look at market dynamics market segmentation service provider enterprise and chipset strategies the interrelationship between the 802 11a b and g standards and much more supported by real statistics and case studies plus profiles of suppliers regulators and other market players this one of a kind guide helps you create effective market penetration strategies and evaluate vendor specific features ultimately world wide wi fi defines the 802 11 market its rapid expansion its challenges and its future most of all it s your invitation to profit from everything that this red hot industry has to offer

a wireless local area network wlan is a wireless computer network that associates two or more devices by a

wireless distribution method within a limited area for example a home school computer laboratory or office building this gives users the ability to move around within a local coverage area and still be connected to the network and can provide a connection to the wider internet most modern wlans are based on ieee 802.11 standards marketed under the wi fi brand name wireless lans have become popular in the home due to ease of installation and use and in commercial complexes offering wireless access to their customers the basic structure of all networks consists of a main computer or server along with connected machines known as clients the server typically has two ethernet network interface cards nics installed and software that can support the network microsoft windows operating systems have featured built in networking capability since windows 98 special edition se but third party networking software is also available in the case of a simple home wireless lan a desktop might be the server while a laptop could be the client at the office a wireless lan provides instant connectivity to mobile personnel it also avoids the costly expense of running ethernet cable throughout a building providing easy effortless desktop connectivity between clients because there are no wires running to the clients one of the main advantages of a wireless lan is easy installation wireless lans also provide more flexibility than wired lans and are less expensive this book entitled advanced wireless lan offers some of the cutting edge development status of wireless lan covering the topics on physical layer mac layer qos and systems it provides an opportunity for both practitioners and researchers to discover the problems that arise in the rapidly developed technologies in wireless lan

wi fi applications have blossomed tremendously over the last few years what started out as cable replacement for static desktops in indoor networks has been extended to fully mobile broadband applications involving wide area outdoor community networks moving vehicles high speed trains and even airplanes wi fi data rates have also continued to increase from 2 to 54 mbit/s with current 802.11n proposals topping 500 mbit/s this development may eventually render wired ethernet redundant in the local network

all in a wi fi network is a workbook designed to fill the need for a comprehensive yet compact and easy to use reference specifically for anyone who wish to study the underlying principles of past present and emerging wi fi technologies it contains the latest information with unique features for quick and effective self study the workbook s refreshing teaching style sets itself apart from other books quantitative concepts are explained visually while the bullet text brings out the key ideas in a manner that is self contained concise and to the point the graphics are engineered towards maximum clarity and are used generously including many engaging cartoons to help spice up the learning process whether you are an entrepreneur a cto a business executive or a scientist you will discover that the thought provoking exercises at the end of the book not only help you master the subject but also serve as a rich source of interesting ideas the contents of the workbook have been carefully class tested at many of the authors teaching assignments on the subject including professional courses for industry government agencies and academic institutions as well as tutorials for researchers at prestigious ieee conferences a companion website is available exclusively for users of this book providing updates to this fast developing field related websites and additional learning resources and supplements the workbook provides valuable insights on a broad range of topics introduction to wlans evolution current standards evolving technologies fundamentals of wlan design and deployment wlan classifications physical layer transmission mac protocols network topologies security switches deployment considerations e g office home public hotspots hotzones 802 11 standard and amendments physical and mac layers 802 11b a g advanced security 802 11i qos support 802 11e performance evaluation of wlans throughput delay prioritization emerging technologies and new 802 11 initiatives high speed mimo systems wireless voip intelligent wireless systems wireless broadband access long range multihop mesh technologies wireless peer to peer applicationsall in a wi fi network is written by an author whose books on wireless networks are highly regarded by many technology visionaries they

contain forewords from both chairmen of the ieee 802 11 working group since its inception the inventor of internet technology and the inventor of the first wireless protocol in early 2000 his groundbreaking book on wireless lans was adopted by cisco systems to launch the cisco aironet wi fi product a multimedia cd was specially prepared by cisco to accompany the book the aironet product has since enjoyed phenomenal success dominating the corporate arena and capturing over 60 of the wi fi market share the author was subsequently invited by qualcomm inc to conduct a customized course on wireless lans for its engineering executives in 2002 his edited book on wireless lans was extensively reviewed by illustrious research journals such as the ieee communications magazine ieee network and acm networker the first time a book has been reviewed by all three journals the author has worked on wireless lan technologies well before it was known as wi fi he has also contributed significantly to the field of wireless lans being the first to emphasize the importance of improving range performance and throughput versus raw data rate these concepts have since been applied to wi fi the author carries over 12 years of teaching and research experience his research publications have appeared in many leading journals including the ieee spectrum and the mit technology review to date he has over 100 research citations and over 40 research papers in 2003 he was selected as one of ten best wireless designers in the u s by bicsi a 22 000 industry member association based in tampa florida he is currently a technical editor for the ieee wireless communications magazine a senior member of ieee a research faculty member with the georgia institute of technology georgia tech in atlanta ga usa and an associate director with the georgia tech broadband institute

successful wireless lan implementations provide many benefits to enterprises that deploy them to reach mobile workers this success requires more than understanding of the ieee 802 11 standard implementing successful wireless lans provides a comprehensive approach that is easy to understand it lays out a wireless project beginning with the business aspects of calculating a return on investment to get started as

well as managing and maintaining network availability to mobile workers once the access points have been installed the author s front line experience in designing and managing wireless local area networks makes this valuable resource for understanding radio frequency fundamentals being able to understand differing wireless coverage and usage models for vendors of standards based access points providing a methodology and report template for doing a wireless site survey that can be used as a guideline for third party services providing a best practices recommendation for wireless security defining device management and providing best practices recommendation delivering a return on investment use scenario that encompasses many of the issues needed to get your project approved providing a view of the next step of wireless technology

wireless local area networks enable small groups of users to connect via mobile devices this introductory text explains how they function what their main advantages are and how to assess their usefulness to organizations and groups needing to connect without having to use expensive fixed cabling systems

this unique and practical text introduces the principles of wlans based upon the ieee 802 11 standards demonstrating how to configure equipment in order to implement various network solutions the text is supported by examples and detailed instructions

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