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# Designing And Deploying 802 11n Wireless Networks

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Wireless Network Design

Throughput, Robustness, and Reliability in 802.11n

Designing and Deploying 802. 11 Wireless Networks

Next Generation Wireless LANs

802.11n and 802.11ac

IP Design for Mobile Networks

High Performance Browser Networking

Theory, Design, and Deployment

Technology, Protocols, and Applications

Developments in Wireless Network Prototyping, Design, and Deployment: Future Generations

802.11 Wireless Networks: The Definitive Guide

An end-to-end reference guide to design, deploy, manage, and secure 802.11 wireless networks

Implementing 802.1X Security Solutions for Wired and Wireless Networks

Wireless Sensor Networks

FiWi Access Networks

OFDM Wireless LANs

For Administrators and Power Users

Wi-Fi Protected Access and 802.11i

CCNA Wireless 640-722 Official Cert Guide

Campus Technology

A Field Guide to Wireless LANs

Future Generations

Deploying and Troubleshooting Cisco Wireless LAN Controllers

TOP-DOWN NET DES \_c3

802. 11n 162 Success Secrets - 162 Most Asked Questions on 802. 11n - What You Need to Know

Demystifying Internet of Things Security

Wireless Network Administration A Beginner's Guide

A Practical Guide to Implementing 802. 11n and 802. 11ac Wireless Networks for Enterprise-Based Applications

Optimization Models and Solution Procedures

Designing and Deploying 802.11n Wireless Networks

Next Generation Wireless LANs

A Theoretical and Practical Guide

Wireless Transceiver Systems Design

Top-Down Network Design

A Practical Guide to Implementing 802.11n and 802.11ac Wireless Networks For Enterprise-Based Applications

The Business of WiMAX  
Software-Defined Radio for Engineers  
Controller-Based Wireless LAN Fundamentals  
Wi-Fi at Gigabit and Beyond

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## **COWAN VALENTINA**

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### **Wireless Network**

#### **Design Standards**

#### **Information Network**

As the cellular world and the Internet converge, mobile networks are transitioning from circuit to packet and the Internet Protocol (IP) is now recognized as the fundamental building block for all next-generation communication networks. The all-IP vision provides the flexibility to deliver cost-effective services and applications that meet the evolving needs of mobile users. RF engineers, mobile network designers, and system architects will be expected to have an understanding of IP fundamentals and how their role in delivering the end-to-end system is crucial for delivering the all-IP vision that makes the Internet accessible anytime, anywhere. IP Design for Mobile Networks discusses proper IP design theory to effectively plan and

implement your next-generation mobile network so that IP integrates all aspects of the network. The book outlines, from both a standards and a design theory perspective, both the current and target state of mobile networks, and the technology enablers that will assist the migration. This IP transition begins with function-specific migrations of specific network domains and ends with an end-to-end IP network for radio, transport, and service delivery. The book introduces many concepts to give you exposure to the key technology trends and decision points affecting today's mobile operators. The book is divided into three parts: Part I provides an overview of how IP is being integrated into mobile systems, including radio systems and cellular networks. Part II provides an overview of IP, the technologies used for transport and connectivity of today's cellular networks, and how the mobile core is evolving to encompass IP

technologies. Part III provides an overview of the end-to-end services network based on IP, including context awareness and services. Presents an overview of what mobile networks look like today—including protocols used, transport technologies, and how IP is being used for specific functions in mobile networks Provides an all-inclusive reference manual for IP design theory as related to the broader application of IP for mobile networks Imparts a view of upcoming trends in mobility standards to better prepare a network evolution plan for IP-based mobile networks This book is part of the Networking Technology Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers. [ciscopress.com](http://ciscopress.com) *Throughput, Robustness, and Reliability in 802.11n* Springer Science & Business Media CCNA Wireless Official

Exam Certification Guide Master IUWNE 640-721 exam topics with the official study guide Assess your knowledge with chapter-opening quizzes Review key concepts with Exam Preparation Tasks Practice with realistic exam questions on the CD-ROM CCNA Wireless Official Exam Certification Guide is a best of breed Cisco® exam study guide that focuses specifically on the objectives for the CCNA® Wireless IUWNE exam. Senior instructor Brandon Carroll shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. CCNA Wireless Official Exam Certification Guide presents you with an organized test preparation routine through the use of proven series elements and techniques. "Do I Know This Already?" quizzes open each chapter and allow you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending

Exam Preparation Tasks sections help you drill on key concepts you must know thoroughly. The companion CD-ROM contains a powerful testing engine that allows you to focus on individual topic areas or take complete, timed exams. The assessment engine also tracks your performance and provides feedback on a module-by-module basis, presenting question-by-question remediation to the text and laying out a complete study plan for review. Well-regarded for its level of detail, assessment features, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. CCNA Wireless Official Exam Certification Guide is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit [www.cisco.com/go/authori](http://www.cisco.com/go/authori)

zedtraining. Brandon James Carroll is one of the country's leading instructors for Cisco security technologies, teaching classes that include the CCNA, CCNP®, CCSP® courses, a number of the CCVP® courses, as well as custom-developed courseware. In his eight years with Ascolta, Brandon has developed and taught many private Cisco courses for companies such as Boeing, Intel, and Cisco. He is a CCNA, CCNP, CCSP, and a certified Cisco instructor. Brandon is the author of Cisco Access Control Security. The official study guide helps you master all the topics on the IUWNE exam, including: WLAN RF principles WLAN technologies and topologies Antennae concepts 802.11 protocols Wireless media access Wired to wireless network packet delivery Cisco Unified Wireless Networks basic architecture Controller discovery, association, and configuration Adding mobility with roaming Migrating standalone AP to LWAPP Mobility Express architecture Wireless clients Installing and configuring the WCS Securing, maintaining,

and troubleshooting wireless networks Companion CD-ROM The CD-ROM contains an electronic copy of the book and more than 150 practice questions for the IUWNE exam. This volume is part of the Exam Certification Guide Series from Cisco Press®. Books in this series provide officially developed exam preparation materials that offer assessment, review, and practice to help Cisco Career Certification candidates identify weaknesses, concentrate their study efforts, and enhance their confidence as exam day nears.

Category: Cisco Press—Cisco Certification Covers: IUWNE exam 640-721

Designing and Deploying 802.11 Wireless Networks Cambridge University Press Complete, practical guidance for every technical professional and manager who wants to deploy 802.11n wireless LANs successfully •

•Detailed explanations and insider tips on migrating from legacy 802.11a, 802.11b, and 802.11g wireless networks. •Real world examples and case studies covering the entire project lifecycle, from planning through

support. •Test tool and equipment configuration screenshots that illuminate key concepts and techniques. As the final 802.11n wireless LAN standard is ratified, thousands of companies are beginning to plan their deployments; many are already moving forward based on the stable Draft 2 standard. However, 802.11n is very different from legacy 802.11a, 802.11b and 802.11g wireless standards, and deployment requires new knowledge and techniques. In this book, leading wireless expert Jim Geier systematically presents all the information and guidance enterprise IT professionals and managers need to deploy 802.11n successfully and achieve maximum performance and business value. Drawing on his extensive experience with real-world 802.11n deployments, Geier covers the entire project lifecycle: planning, design, installation, testing, and support. He offers practical, how-to guidance for deploying in enterprises without existing wireless infrastructure, As well as migrating from legacy 802.11x wireless networks. Part I of this

book focuses on the underlying concepts that must be understood before deploying an 802.11n wireless network. Part II focuses on the latest 802.11 standard itself, including current medium access and physical layers, 802.11n functionality, and other current updates, such as 802.11r.

*Next Generation Wireless LANs* Cambridge University Press Trust the best-selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for exam success. They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. Master Cisco CCNA Wireless 640-722 exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks This is the eBook edition of the CCNA Wireless 640-722 Official Certification Guide. This eBook does not include the companion CD-ROM with practice exam that comes with the print edition. CCNA Wireless 640-722 Official Certification Guide presents you with an

organized test preparation routine through the use of proven series elements and techniques. “Do I Know This Already?” quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. CCNA Wireless 640-722 Official Certification Guide focuses specifically on the objectives for the Cisco CCNA Wireless 640-722 exam. Expert network architect David Hucaby (CCIE No. 4594) shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. Well regarded for its level of detail, assessment features, comprehensive design scenarios, and challenging review questions and exercises, this official study guide helps you master the concepts and techniques that will enable you to

succeed on the exam the first time. The official study guide helps you master all the topics on the CCNA Wireless 640-722 exam, including the following: RF signals, modulation, and standards Antennas WLAN topologies, configuration, and troubleshooting Wireless APs CUWN architecture Controller configuration, discovery, and maintenance Roaming Client configuration RRM Wireless security Guest networks WCS network management Interference CCNA Wireless 640-722 Official Certification Guide is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit [www.cisco.com/go/authorizedtraining](http://www.cisco.com/go/authorizedtraining). 802.11n and 802.11ac Cambridge University Press Based on the popular Artech House classic, Digital Communication Systems Engineering with Software-Defined Radio,

this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both

MATLAB and Simulink source code are included to assist readers with their projects in the field. Jones & Bartlett Learning Break down the misconceptions of the Internet of Things by examining the different security building blocks available in Intel Architecture (IA) based IoT platforms. This open access book reviews the threat pyramid, secure boot, chain of trust, and the SW stack leading up to defense-in-depth. The IoT presents unique challenges in implementing security and Intel has both CPU and Isolated Security Engine capabilities to simplify it. This book explores the challenges to secure these devices to make them immune to different threats originating from within and outside the network. The requirements and robustness rules to protect the assets vary greatly and there is no single blanket solution approach to implement security. Demystifying Internet of Things Security provides clarity to industry professionals and provides an overview of different security solutions What You'll Learn Secure devices, immunizing them against

different threats originating from inside and outside the network Gather an overview of the different security building blocks available in Intel Architecture (IA) based IoT platforms Understand the threat pyramid, secure boot, chain of trust, and the software stack leading up to defense-in-depth Who This Book Is For Strategists, developers, architects, and managers in the embedded and Internet of Things (IoT) space trying to understand and implement the security in the IoT devices/platforms. [IP Design for Mobile Networks](#) John Wiley & Sons Gain a practical understanding of the underlying concepts of the 802.11n standard and the methodologies for completing a successful wireless network installation Practical, start-to-finish guidance for successful deployment of 802.11n wireless LANs With the ratification of the 802.11n wireless LAN standard, thousands of companies are moving rapidly toward implementation. However, 802.11n is very different from legacy 802.11a, 802.11b, and 802.11g

wireless standards, and successful deployment requires new knowledge and techniques. In this book, leading wireless expert Jim Geier systematically presents all the information and guidance that network architects, engineers, administrators, and managers need to maximize the performance and business value of new 802.11n networks. Drawing on extensive experience with real-world 802.11n deployments, Geier guides you through the entire project lifecycle: planning, design, installation, testing, monitoring, and support. Each phase of wireless LAN deployment is organized into clearly defined steps, and multiple case studies and hands-on exercises show how to apply each technique. You'll find practical guidance for deploying in enterprises without existing wireless infrastructure, as well as migrating from legacy 802.11a, 802.11b, or 802.11g networks. For convenient reference, Geier also provides an extensive, up-to-date wireless networking glossary. Understanding 802.11n MAC, physical layer, and related



standards Designing 802.11n wireless networks for diverse scenarios: considering architecture, range, performance, roaming, and RF issues Migrating from 802.11a, 802.11b, and 802.11g wireless networks Choosing the right tools and equipment, and using them effectively Planning effectively: scoping projects; creating work breakdown structures; organizing teams, schedules, and budgets; defining requirements, and more Securing WLANs via encryption, authentication, rogue access point detection, RF shielding, and policies Performing site surveys and identifying optimum access point locations Installing and configuring wireless LANs: planning, staging, deployment, documentation, and more Systematic testing to improve signal coverage, performance, and security Managing wireless LANs: help desk support, network monitoring, maintenance, engineering, configuration management, security, tools, and more Troubleshooting 802.11n networks: identifying issues with connectivity, performance, and more *High Performance*

*Browser Networking*  
Springer

This book surveys state-of-the-art optimization modeling for design, analysis, and management of wireless networks, such as cellular and wireless local area networks (LANs), and the services they deliver. The past two decades have seen a tremendous growth in the deployment and use of wireless networks. The current-generation wireless systems can provide mobile users with high-speed data services at rates substantially higher than those of the previous generation. As a result, the demand for mobile information services with high reliability, fast response times, and ubiquitous connectivity continues to increase rapidly. The optimization of system performance has become critically important both in terms of practical utility and commercial viability, and presents a rich area for research. In the editors' previous work on traditional wired networks, we have observed that designing low cost, survivable telecommunication networks involves extremely complicated processes. Commercial

products available to help with this task typically have been based on simulation and/or proprietary heuristics. As demonstrated in this book, however, mathematical programming deserves a prominent place in the designer's toolkit. Convenient modeling languages and powerful optimization solvers have greatly facilitated the implementation of mathematical programming theory into the practice of commercial network design. These points are equally relevant and applicable in today's world of wireless network technology and design. But there are new issues as well: many wireless network design decisions, such as routing and facility/element location, must be dealt with in innovative ways that are unique and distinct from wired (fiber optic) networks. The book specifically treats the recent research and the use of modeling languages and network optimization techniques that are playing particularly important and distinctive roles in the wireless domain.

**Theory, Design, and Deployment** "O'Reilly

Media, Inc."

As we all know by now, wireless networks offer many advantages over fixed (or wired) networks. Foremost on that list is mobility, since going wireless frees you from the tether of an Ethernet cable at a desk. But that's just the tip of the cable-free iceberg. Wireless networks are also more flexible, faster and easier for you to use, and more affordable to deploy and maintain. The de facto standard for wireless networking is the 802.11 protocol, which includes Wi-Fi (the wireless standard known as 802.11b) and its faster cousin, 802.11g. With easy-to-install 802.11 network hardware available everywhere you turn, the choice seems simple, and many people dive into wireless computing with less thought and planning than they'd give to a wired network. But it's wise to be familiar with both the capabilities and risks associated with the 802.11 protocols. And 802.11 Wireless Networks: The Definitive Guide, 2nd Edition is the perfect place to start. This updated edition covers everything you'll ever need to know about wireless technology.

Designed with the system administrator or serious home user in mind, it's a no-nonsense guide for setting up 802.11 on Windows and Linux. Among the wide range of topics covered are discussions on: deployment considerations network monitoring and performance tuning wireless security issues how to use and select access points network monitoring essentials wireless card configuration security issues unique to wireless networks With wireless technology, the advantages to its users are indeed plentiful. Companies no longer have to deal with the hassle and expense of wiring buildings, and households with several computers can avoid fights over who's online. And now, with 802.11 Wireless Networks: The Definitive Guide, 2nd Edition, you can integrate wireless technology into your current infrastructure with the utmost confidence. *Technology, Protocols, and Applications* Emereo Publishing  
There has never been a 802.11n Guide like this. It contains 162 answers, much more than you can

imagine; comprehensive answers and extensive details and references, with insights that have never before been offered in print. Get the information you need--fast! This all-embracing guide offers a thorough view of key knowledge and detailed insight. This Guide introduces what you want to know about 802.11n. A quick look inside of some of the subjects covered: 802.11 - 802.11-2012, AirPort AirPort Extreme 802.11n, Inter-Access Point Protocol, MacBook Pro - First generation, Redpine Signals - Products and Services, IEEE 802.11n-2009 - Number of antennas, Asus Eee PC - Other Eee 90x models, Xbox One - Hardware, HP Networking - History, IEEE 802.11n-2009 - Wi-Fi Alliance, Airport Extreme - Overview, WiFi - Range, IEEE 802.11n-2009 - Deployment strategies, 802.11ac, MIMO - Wireless standards, Nexus 10 - Hardware and design, MediaTek - IEEE 802.11, Smart appliance - Wireless radio, DASH7 - Technical summary, 802.11 - General description, IEEE 802.11 - General description, Outline of Apple Inc. - Hardware accessories, Wireless LAN - History,



IEEE 802.11ac - New technologies, Wireless access point - Limitations, Wi-Fi Limitations, 802.11 - 802.11n, List of Xbox 360 accessories - Wireless Network Adapter, IEEE 802.11ad, 802.11ac - Mandatory and optional features, 802.11 - Channels and frequencies, Orthogonal frequency-division multiplexing - Wireless local area networks (LAN) and metropolitan area networks (MAN), IEEE 802.11g-2003, IEEE 802.11 - Standard and amendments, 802.11n - Timeline, Multiple-input multiple-output - Multi-antenna types, Mac Mini - Design, IEEE 802.11n-2009 - Description, Free (ISP) - Freebox device, 802.11n - Backward compatibility, and much more...  
Developments in Wireless Network Prototyping, Design, and Deployment: Future Generations  
 Pearson Education  
 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.  
*802.11 Wireless Networks: The Definitive Guide* John Wiley & Sons  
 The next frontier for wireless LANs is 802.11ac, a standard that increases throughput beyond one gigabit per second. This concise guide provides in-depth information to help you plan for 802.11ac, with technical details on design, network operations, deployment, and monitoring. Author Matthew Gast—an industry expert who led the development of 802.11-2012 and security task groups at the Wi-Fi Alliance—explains how

802.11ac will not only increase the speed of your network, but its capacity as well. Whether you need to serve more clients with your current level of throughput, or serve your existing client load with higher throughput, 802.11ac is the solution. This book gets you started. Understand how the 802.11ac protocol works to improve the speed and capacity of a wireless LAN. Explore how beamforming increases speed capacity by improving link margin, and lays the foundation for multi-user MIMO. Learn how multi-user MIMO increases capacity by enabling an AP to send data to multiple clients simultaneously. Plan when and how to upgrade your network to 802.11ac by evaluating client devices, applications, and network connections.

**An end-to-end reference guide to design, deploy, manage, and secure 802.11 wireless networks** "O'Reilly Media, Inc."

Objectives The purpose of Top-Down Network Design, Third Edition, is to help you design networks that meet a customer's business and technical goals. Whether your customer is another

department within your own company or an external client, this book provides you with tested processes and tools to help you understand traffic flow, protocol behavior, and internetworking technologies. After completing this book, you will be equipped to design enterprise networks that meet a customer's requirements for functionality, capacity, performance, availability, scalability, affordability, security, and manageability. Audience This book is for you if you are an internetworking professional responsible for designing and maintaining medium- to large-sized enterprise networks. If you are a network engineer, architect, or technician who has a working knowledge of network protocols and technologies, this book will provide you with practical advice on applying your knowledge to internetwork design. This book also includes useful information for consultants, systems engineers, and sales engineers who design corporate networks for clients. In the fast-paced presales environment of many systems engineers,

it often is difficult to slow down and insist on a top-down, structured systems analysis approach.

Wherever possible, this book includes shortcuts and assumptions that can be made to speed up the network design process. Finally, this book is useful for undergraduate and graduate students in computer science and information technology disciplines. Students who have taken one or two courses in networking theory will find Top-Down Network Design, Third Edition, an approachable introduction to the engineering and business issues related to developing real-world networks that solve typical business problems. Changes for the Third Edition Networks have changed in many ways since the second edition was published. Many legacy technologies have disappeared and are no longer covered in the book. In addition, modern networks have become multifaceted, providing support for numerous bandwidth-hungry applications and a variety of devices, ranging from smart phones to tablet PCs to high-end servers. Modern users expect the network to be available all the time, from any device,

and to let them securely collaborate with coworkers, friends, and family. Networks today support voice, video, high-definition TV, desktop sharing, virtual meetings, online training, virtual reality, and applications that we can't even imagine that brilliant college students are busily creating in their dorm rooms. As applications rapidly change and put more demand on networks, the need to teach a systematic approach to network design is even more important than ever. With that need in mind, the third edition has been retooled to make it an ideal textbook for college students. The third edition features review questions and design scenarios at the end of each chapter to help students learn top-down network design. To address new demands on modern networks, the third edition of *Top-Down Network Design* also has updated material on the following topics: ; Network redundancy ; Modularity in network designs ; The Cisco SAFE security reference architecture ; The Rapid Spanning Tree Protocol (RSTP) ; Internet Protocol version 6 (IPv6) ; Ethernet scalability options,

including 10-Gbps Ethernet and Metro Ethernet ; Network design and management tools  
*Implementing 802.1X Security Solutions for Wired and Wireless Networks* Cisco Press  
 Provides the key practical considerations for deploying wireless LANs and a solid understanding of the emerging technologies.  
*Wireless Sensor Networks* Pearson Education  
 If you've been searching for a way to get up to speed quickly on IEEE 802.11n without having to wade through the entire standard, then look no further. This comprehensive overview describes the underlying principles, implementation details, and key enhancing features of 802.11n. A detailed discussion of the key throughput, robustness, and reliability enhancing features (such as MIMO, 40 MHz channels, and packet aggregation) is given, in addition to a clear summary of the issues surrounding legacy interoperability and coexistence. Advanced topics such as beamforming and fast link adaptation are also covered. With numerous MAC and physical layer

examples and simulation results included to highlight the benefits of the new features, this is an ideal reference for designers of WLAN equipment, and network managers whose systems adopt the new standard. It is also a useful distillation of 802.11n technology for graduate students and researchers in the field of wireless communication.  
*FiWi Access Networks* Pearson Education  
 The fields of communication, signal processing, and embedded systems and circuits are brought together in this book. These fields come together with a single design goal, a WLAN transceiver which combines analog and digital design, VLSI and systems design, algorithms and architectures, as well as design and CAD/EDA. This book focuses on the overall approach to design problems and design organization needed for transceiver design. It does not focus on one particular standard.  
*OFDM Wireless LANs* John Wiley & Sons  
 As we all know by now, wireless networks offer many advantages over fixed (or wired) networks.

Foremost on that list is mobility, since going wireless frees you from the tether of an Ethernet cable at a desk. But that's just the tip of the cable-free iceberg. Wireless networks are also more flexible, faster and easier for you to use, and more affordable to deploy and maintain. The de facto standard for wireless networking is the 802.11 protocol, which includes Wi-Fi (the wireless standard known as 802.11b) and its faster cousin, 802.11g. With easy-to-install 802.11 network hardware available everywhere you turn, the choice seems simple, and many people dive into wireless computing with less thought and planning than they'd give to a wired network. But it's wise to be familiar with both the capabilities and risks associated with the 802.11 protocols. And 802.11 Wireless Networks: The Definitive Guide, 2nd Edition is the perfect place to start. This updated edition covers everything you'll ever need to know about wireless technology. Designed with the system administrator or serious home user in mind, it's a no-nonsense guide for setting up 802.11 on

Windows and Linux. Among the wide range of topics covered are discussions on: deployment considerations network monitoring and performance tuning wireless security issues how to use and select access points network monitoring essentials wireless card configuration security issues unique to wireless networks With wireless technology, the advantages to its users are indeed plentiful. Companies no longer have to deal with the hassle and expense of wiring buildings, and households with several computers can avoid fights over who's online. And now, with 802.11 Wireless Networks: The Definitive Guide, 2nd Edition, you can integrate wireless technology into your current infrastructure with the utmost confidence. **For Administrators and Power Users** Pearson Education "Building a network for the multitude of new devices is now a strategic decision for network engineers everywhere. This book give you an in-depth look at key parts of 802.11n, and shows you how to acheive an

Ethernet-free wireless office"--Back cover. *Wi-Fi Protected Access and 802.11i* "O'Reilly Media, Inc." Controller-Based Wireless LAN Fundamentals An end-to-end reference guide to design, deploy, manage, and secure 802.11 wireless networks As wired networks are increasingly replaced with 802.11n wireless connections, enterprise users are shifting to centralized, next-generation architectures built around Wireless LAN Controllers (WLC). These networks will increasingly run business-critical voice, data, and video applications that once required wired Ethernet. In Controller-Based Wireless LAN Fundamentals, three senior Cisco wireless experts bring together all the practical and conceptual knowledge professionals need to confidently design, configure, deploy, manage, and troubleshoot 802.11n networks with Cisco Unified Wireless Network (CUWN) technologies. The authors first introduce the core principles, components, and advantages of next-generation wireless networks built with Cisco offerings. Drawing on

their pioneering experience, the authors present tips, insights, and best practices for network design and implementation as well as detailed configuration examples. Next, they illuminate key technologies ranging from WLCs to Lightweight Access Point Protocol (LWAPP) and Control and Provisioning of Wireless Access Points (CAPWAP), Fixed Mobile Convergence to WiFi Voice. They also show how to take advantage of the CUWN's end-to-end security, automatic configuration, self-healing, and integrated management capabilities. This book serves as a practical, hands-on reference for all network administrators, designers, and engineers through the entire project lifecycle, and an authoritative learning tool for new wireless certification programs. This is the only book that Fully covers the principles and components of next-generation wireless networks built with Cisco WLCs and Cisco 802.11n AP Brings together real-world tips, insights, and best practices for

designing and implementing next-generation wireless networks Presents start-to-finish configuration examples for common deployment scenarios Reflects the extensive first-hand experience of Cisco experts Gain an operational and design-level understanding of WLAN Controller (WLC) architectures, related technologies, and the problems they solve Understand 802.11n, MIMO, and protocols developed to support WLC architecture Use Cisco technologies to enhance wireless network reliability, resilience, and scalability while reducing operating expenses Safeguard your assets using Cisco Unified Wireless Network's advanced security features Design wireless networks capable of serving as an enterprise's primary or only access network and supporting advanced mobility services Utilize Cisco Wireless Control System (WCS) to plan, deploy, monitor, troubleshoot, and report on wireless networks throughout their lifecycles Configure Cisco wireless LANs for

multicasting Quickly troubleshoot problems with Cisco controller-based wireless LANs This book is part of the Cisco Press® Fundamentals Series. Books in this series introduce networking professionals to new networking technologies, covering network topologies, sample deployment concepts, protocols, and management techniques. Category: Wireless Covers: Cisco Controller-Based Wireless LANs **CCNA Wireless 640-722 Official Cert Guide** Prentice Hall Professional You know it's essential, and you've heard that it can be tricky ? implementing the 802.1x standard. Here is a road map that will enable you to approach 802.1x implementation with confidence so that you can conduct successful implementation of 802.1x in both wired and wireless networks. Complete with step-by-step instructions, recommendations to help you choose the best solutions, and troubleshooting tips, it lets you benefit from the experience of others who have met the challenge.

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