# Cwna Guide To Wireless Lans

A Field Guide to Wireless LANs Wireless LANs Wireless Local Area Networks CWNA Guide to Wireless LANs Next Generation Wireless LANs 802.11 Wireless LAN Fundamentals 802.11 Wireless Networks: The Definitive Guide Securing Wireless LANs Emerging Technologies in Wireless LANs CWNA Guide to Wireless LANs The WiFi Networking Book Handbook of Wireless Local Area Networks Next Generation Wireless LANs OFDM Wireless LANs Designing and Deploying 802.11 Wireless Networks BUILD YOUR OWN WIRELESS LANS Smart Antenna Systems and Wireless LANs Cisco Wireless LAN Security Controller-Based Wireless LAN Fundamentals Next Generation Wireless LANs Design and Performance of 3G Wireless Networks and Wireless LANs Wireless LANs Demystified Deploying Voice Over Wireless LANs Mobile Data and Wireless LAN Technologies Wireless Networks First-step Wireless Networking Technology Wireless Networking Complete Improving the Performance of Wireless LANs Security in Wireless LANs and MANs Wireless LANs Wireless Networking CWSP Guide to Wireless Security Wireless Networking: Know It All Wireless Networking Handbook Wireless LANs and Bluetooth Wireless Networking Implementing Successful Wireless LANs Wireless LANs Wireless Home Networking For Dummies Guide to Designing and Implementing Wireless LANs

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Controller-Based Wireless LAN Fundamentals Apr 17 2021 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

Wireless Networking Technology Sep 10 2020 As the demand for higher bandwidth has lead to the development of increasingly complex wireless technologies, an understanding of both wireless networking technologies and radio frequency (RF) principles is essential for implementing high performance and cost effective wireless networks. Wireless Networking Technology clearly explains the latest wireless technologies, covering all scales of wireless networking from personal (PAN) through local area (LAN) to metropolitan (MAN). Building on a comprehensive review of the underlying technologies, this practical guide contains 'how to' implementation information, including a case study that looks at the specific requirements for a voice over wireless LAN application. This invaluable resource will give engineers and managers all the necessary knowledge to design, implement and operate high performance wireless networks. · Explore in detail wireless networking technologies and understand the concepts behind RF propagation. · Gain the knowledge and skills required to install, use and troubleshoot wireless networks. · Learn how to address the problems involved in implementing a wireless network, including the impact of signal propagation on operating range, equipment inter-operability problems and many more. · Maximise the efficiency and security of your wireless network.

Wireless LANs Demystified Jan 15 2021 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.

BUILD YOUR OWN WIRELESS LANS Jul 21 2021 Introducing wireless LANs, the fastest way to network computers! Whether you are connecting your laptop PC to the Internet or building a sophisticated wireless LAN for your company, this comprehensive guide will give you the information you need to make your design a success! In progressive steps, you will move from learning the fundamentals of WLAN technology to working on increasingly complex wireless projects. You will learn how to build and use wireless LANs for home, office, business, and campus and Internet access. BUILD YOUR OWN WIRELESS NETWORK: * Shows you how to design, install, and configure IEEE 802.11 wireless LANs at data rates of 11 – 54 Mbps, and higher! * Explains how radio-frequency operation works * Gets to the bottom of IEEE 802.11, 802.11a, 802.11b, and 802.11g * Discusses WLAN operation with Bluetooth or HomeRF * Makes you familiar with wireless network interface cards, access points, antennas, cabling, and amplifiers * Supplies details on operating WLANs with PCs, cell phones, and PDAs * Includes information on integrating your WLAN with complete home automation systems YOU'LL ALSO LEARN HOW TO: * Provide authentication, access, security, encryption, routing, and firewalling for WLANs * Extend the range of your WLAN coverage using directional antennas * Perform field measurements to verify coverage * Manage potential sources of interference and noise * Install point-to-point and point-to-multipoint bridge links * Interface your WLAN to high-speed DSL and Cable Modem access lines Here's your complete guide to connecting PCs and PDAs wirelessly for an entire building...or just to surf the Internet from your easy chair!

CWNA Guide to Wireless LANs Aug 02 2022 CWNA GUIDE TO WIRELESS LANS, 3rd Edition provides students with the conceptual knowledge and hands-on skills needed to work with wireless technology in a network administration environment as well as pass the Certified Wireless Network Administrator (CWNA) exam. The text covers fundamental topics, such as planning, designing, installing, securing, and configuring wireless LANs. It also details common wireless LAN uses including maintenance, security, and business applications. The third edition is designed around the latest version of the CWNA exam, as well as the new IEEE 802.11 standard, making CWNA GUIDE TO WIRELESS LANS the practical guide that prepares students for real-world wireless networking. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Wireless Networking Complete Aug 10 2020 Wireless Networking Complete is a compilation of critical content from key Morgan Kaufmann titles published in recent years on wireless networking and communications. Individual chapters are organized into one complete reference giving a 360-degree view from our bestselling authors. From wireless application protocols, to Mesh Networks and Ad Hoc Sensor Networks, to security and survivability of wireless systems – all of the elements of wireless networking are united in a single volume. The book covers both methods of analysis and problem-solving techniques, enhancing the reader's grasp of the material and ability to implement practical solutions. This book is essential for anyone interested in new and developing aspects of wireless network technology. Chapters contributed by recognized experts in the field cover theory and practice of wireless network technology, allowing the reader to develop a new level of knowledge and technical expertise Up-to-date coverage of wireless networking issues facilitates learning and lets the reader remain current and fully informed from multiple viewpoints Presents methods of analysis and problem-solving techniques, enhancing the reader's grasp of the material and ability to implement practical solutions

Wireless Networking Apr 05 2020 Over the past decade, the world has witnessed an explosion in the development and deployment of new wireless network technologies. From cellular

mobile telephony to the ubiquitous "WiFi networks in coffee-shops and airports, to the emerging WiMAX wireless broadband access networks, the menu of wireless access systems has become so comprehensive that wireline access to user devices may soon become a relic of the past. Wireless Networking serves as a one-stop view of cellular, WiFi, and WiMAX networks, as well as the emerging wireless ad hoc and sensor networks. Rather than provide descriptive accounts of these technologies and standards, the book emphasizes conceptual perspectives on the modeling, analysis, design and optimization of such networks. Furthermore, the authors present wireless networking within the unifying framework of resource allocation, using simple abstractions of the underlying physical wireless communication. In short, Wireless Networking is an in-depth, exhaustive, and invaluable asset to anyone working in this rapidly evolving field. Goes beyond descriptive and qualitative treatments, by presenting the foundations underlying the various wireless networking technologies Provides abstractions, models and analyses of established and emerging wireless networks, thereby supplying the reader with a conceptual and quantitative treatment, thus ensuring longevity of the learning from this material Aids comprehension by including over 120 figures, four appendices on the mathematics of the various models, several inline exercises, and extensive problem sets at the end of each chapter

Handbook of Wireless Local Area Networks Nov 24 2021 Handbook of Wireless Local Area Networks: Applications, Technology, Security, and Standards captures the current state of wireless LANs, and serves as the single comprehensive reference on the subject. Addressing challenges related to the further development of WLAN technology, the Handbook covers the entire spectrum of topics from basic concepts t

Wireless Networking: Know It All Feb 02 2020 The Newnes Know It All Series takes the best of what our authors have written to create hard-working desk references that will be an engineer's first port of call for key information, design techniques and rules of thumb. Guaranteed not to gather dust on a shelf! Wireless Networking: Know It All delivers readers from the basics of a wireless system such as antennas and transmitters to current hot topic wireless systems and technologies. The backbone to technologies and applications such as mobile, untethered Internet access, Internet telephony, and high quality multimedia content via the Web is completely covered in this reference. Chapter 1. Basics of Wireless Communications Chapter 2. Basics of Wireless Local Area Networks Chapter 3. Radio Transmitters and Receivers Chapter 4. Radio Propagation Chapter 5. Antennas and Transmission Lines Chapter 6. Communication Protocols and Modulation Chapter 7. High-Speed Wireless Data: System Types, Standards-Based and Proprietary Solutions Chapter 8. Propagation Modeling and Measuring Chapter 9. Indoor Networks Chapter 10. Security in Wireless Local Area Networks Chapter 11. Voice Over Wi-Fi and Other Wireless Technologies Chapter 12. Mobile Ad Hoc Networks Chapter 13. Wireless Sensor Networks Chapter 14. Reliable Wireless Networks for Industrial Applications Chapter 15. Applications and Technologies Chapter 16. System Planning *A comprehensive overview from best-selling authors including Daniel Dobkin, Ron Olexa, and Alan Bensky *Explains the theory, concepts, design, and implementation of 802.11, 802.16, and 802.20 wireless networks – the three most popular types *Includes discussion of indoor networks, signal propagation, network security, and other topics essential for designing robust, secure wireless networks

Wireless Networks First-step Oct 12 2020 Assuming no previous experience of the subject, this user-friendly, step-by-step guide will enable readers to gain an understanding of wireless networking basics.

802.11 Wireless LAN Fundamentals May 31 2022 802.11 Wireless LAN Fundamentals gives you the background and practical details you need to select, design, install, and run your own WLAN. This book begins with an overview of Ethernet technologies, 802.11 standards, and physical layer technologies, providing you with a frame of reference for the rest of the book. Subsequent chapters address challenges and solutions associated with security, mobility, and QoS. Radio frequency fundamentals are reviewed in detail, as are site-surveying methods. A series of case studies that highlight WLAN design considerations in various business environments helps place all the concepts covered in this book in the context of real-world applications.

Implementing Successful Wireless LANs Sep 30 2019 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

Mobile Data and Wireless LAN Technologies Nov 12 2020 Dayem reviews potential applications, market forecasts, services offered, traffic capacities and bandwidth issues, achievable throughput, spectrum allocation, standards, products, and key players. The book also includes a primer on wireless networking, mobile data, wireless spectra and international standards.

CWNA Guide to Wireless LANs Jan 27 2022 CWNA GUIDE TO WIRELESS LANS, 3rd Edition provides students with the conceptual knowledge and hands-on skills needed to work with wireless technology in a network administration environment as well as pass the Certified Wireless Network Administrator (CWNA) exam. The text covers fundamental topics, such as planning, designing, installing, securing, and configuring wireless LANs. It also details common wireless LAN uses including maintenance, security, and business applications. The third edition is designed around the latest version of the CWNA exam, as well as the new IEEE 802.11 standard, making CWNA GUIDE TO WIRELESS LANS the practical guide that prepares students for real-world wireless networking. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Emerging Technologies in Wireless LANs Feb 25 2022 Provides the key practical considerations for deploying wireless LANs and a solid understanding of the emerging technologies.

Cisco Wireless LAN Security May 19 2021 A guide to wireless LAN technology and security, covering such topics as protocols, deployment patterns, WEP, EAP, switching, and management.

Wireless LANs May 07 2020 Jim Geier examines and assesses recently adopted emerging wireless LAN and PAN technologies/standards, including IEEE 802 and Bluetooth. Real world experience is offered through case studies and implementation tips throughout the text.

The WiFi Networking Book Dec 26 2021 'The WiFi Networking Book: WLAN Standards: IEEE 802.11 bgn, 802.11n, 802.11ac and 802.11ax' starts from the ground up for a new user and does a gradual progression into the technical details around IEEE 802.11 Wireless Lan communications standard. The book details the 'legacy' 802.11 stack (a/b/g) and also goes into the latest wave of 802.11 standards - 802.11n, ac and ax. Introduction A wireless LAN (WLAN) is a data transmission system designed to provide location-independent network access between computing devices by using radio waves rather than a cable infrastructure . In the corporate enterprise, wireless LANs are usually implemented as the final link between the existing wired network and a group of client computers, giving these users wireless access to the full resources and services of the corporate network across a building or campus setting. The widespread acceptance of WLANs depends on industry standardization to ensure product compatibility and reliability among the various manufacturers. The 802.11 specification as a standard for wireless LANS was ratified by the Institute of Electrical and Electronics Engineers (IEEE) in the year 1997. This version of 802.11 provides for 1 Mbps and 2 Mbps data rates and a set of fundamental signaling methods and other services. Like all IEEE 802 standards, the 802.11 standards focus on the bottom two levels the ISO model, the physical layer and link layer. Any LAN application, network operating system, protocol, including TCP/IP and Novell NetWare, will run on an 802.11-compliant WLAN as easily as they run over Ethernet. What is inside Overview on Wireless Technologies, Usage Scenarios and related Taxonomy Wireless LAN and 802.11 WiFi: Architecture, 802.11 Physical Layer, 802.11 Data Link Layer, 802.11 Security 802.11 Standards: 802.11b, 802.11a, 802.11g, 802.11n MIMO, 802.11ac - Wave 1 and Wave 2, 802.11ax WiMax Networks: Forum, WiMax Protocol, WiMax Architecture

Designing and Deploying 802.11 Wireless Networks Aug 22 2021 Designing and Deploying 802.11 Wireless Networks Second Edition A Practical Guide to Implementing 802.11n and 802.11ac Wireless Networks For Enterprise-Based Applications Plan, deploy, and operate high-performance 802.11ac and 802.11n wireless networks The new 802.11ac standard enables WLANs to deliver significantly higher performance. Network equipment manufacturers have refocused on 802.11ac- and 802.11n-compliant solutions, rapidly moving older versions of 802.11 toward "legacy" status. Now, there's a complete guide to planning, designing, installing, testing, and supporting 802.11ac and 802.11n wireless networks in any environment, for virtually any application. Jim Geier offers practical methods, tips, and recommendations that draw on his decades of experience deploying wireless solutions and shaping wireless standards. He carefully introduces 802.11ac's fundamentally different design, site survey, implementation, and network configuration techniques, helping you maximize performance and avoid pitfalls. Geier organizes each phase of WLAN deployment into clearly defined steps, making the entire planning and deployment process easy to understand and execute. He illuminates key concepts and methods through realistic case studies based on current Cisco products, while offering tips and techniques you can use with any vendor's equipment. To build your skills with key tasks, you'll find several hands-on exercises relying on free or inexpensive tools. Whether you're deploying an entirely new wireless network or migrating from older equipment, this guide contains all the expert knowledge you'll need to succeed. Jim Geier has 30 years of experience planning, designing, analyzing and implementing communications, wireless, and mobile systems. Geier is founder and Principal Consultant of Wireless-Nets, Ltd., providing wireless analysis and design services to product manufacturers. He is also president, CEO, and co-founder of Health Grade Networks, providing wireless network solutions to hospitals, airports, and manufacturing facilities. His books include the first edition of Designing and Deploying 802.11n Wireless Networks (Cisco Press); as well as Implementing 802.1X Security Solutions and Wireless Networking Handbook. Geier has been active in the IEEE 802.11 Working Group and Wi-Fi Alliance; has chaired the IEEE Computer Society (Dayton Section) and various conferences; and served as expert witness in patent litigation related to wireless and cellular technologies. Review key 802.11 concepts, applications, markets, and technologies Compare ad hoc, mesh, and infrastructure WLANs and their components Consider the impact of radio signal interference, security vulnerabilities, multipath propagation, roaming, and battery limitations Thoroughly understand

today's 802.11 standards in the context of actual network deployment and support Plan your deployment: scoping, staffing, schedules, budgets, risks, feasibility analysis, and requirements Architect access networks and distribution system for maximum reliability, manageability, and performance Make the right tradeoffs and decisions to optimize range, performance, and roaming Secure WLANs via encryption, authentication, rogue AP detection, RF shielding, and policies Master design and site survey tools and methods for planning 802.11ac networks and migrations Efficiently install and test any 802.11ac or 802.11n wireless network Establish specialized support for wireless networks, including help desk operations Systematically troubleshoot connectivity, performance, and roaming issues Design efficient mesh networks and city-wide deployments

CWSP Guide to Wireless Security Mar 05 2020 CWSP Guide to Wireless Security is a hands-on guide to defending wireless networks against attacks. This book prepares students for the Certified Wireless Security Professional (CWSP) certification from Planet3. Focusing on IEEE 802.11a/b/g/pre-n wireless local area networks, this book provides extensive coverage of the latest wireless attack tools and defenses, including IEEE 802.11i, WPA, WPA2, and WIPS, along with how to design and manage a secure wireless LAN. Material is reinforced with hands-on projects at the end of each chapter. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Wireless LANs Aug 29 2019 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.

Design and Performance of 3G Wireless Networks and Wireless LANs Feb 13 2021 Presentation of background material of wireless communications, traffic modeling and traffic engineering techniques. Provides descriptions of upcoming features such as IP multimedia subsystems, multimedia broadcast/multicast services and Push-to-Talk over Cellular (PoC) for 3G networks Including problems at the end of each chapter Written for lecturers, graduate students and system designers

A Field Guide to Wireless LANs Nov 05 2022 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.

Wireless Networking Oct 31 2019 This book focuses on providing a detailed and practical explanation of key existing and emerging wireless networking technologies and trends,while minimizing the amount of theoretical background information. The book also goes beyond simply presenting what the technology is, but also examines why the technology is the way it is, the history of its development, standardization, and deployment. The book also describes how each technology is used, what problems it was designed to solve, what problems it was not designed to solve., how it relates to other technologies in the marketplace, and internetworking challenges faced withing the context of the Internet, as well as providing deployment trends and standardization trends. Finally, this book decomposes evolving wireless technologies to identify key technical and usage trends in order to discuss the likely characteristics of future wireless networks.

OFDM Wireless LANs Sep 22 2021 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.

Smart Antenna Systems and Wireless LANs Jun 19 2021 This book concerns two major topics, smart antenna systems and wireless local-area-networks (LANs). For smart antenna systems, it d- cusses the mechanics behind a smart antenna system, the setup of a smart antenna experimental testbed, and experimental and computer simulation results of various issues relating to smart antenna systems. For wireless LAN systems, it discusses the IEEE 802.11 worldwide wi- less LAN standard, the operation of a wireless LAN system, and some of the technical considerations that must be overcome by a wireless LAN system designer. These two topics are combined in the discussion of the Smart Wireless LAN (SWL) system, which was designed to achieve the benefits which smart antenna systems can provide for wireless LAN systems while still remaining compatible with the 802.11 wireless LAN standard. The design of SWL calls for the replacement of the conv- tional wireless LAN base station (which are called access points in the 802.11 documentation) with an SWL base station, while leaving the -dividual terminal operation as unchanged as possible.

Deploying Voice Over Wireless LANs Dec 14 2020 Master the design, installation, management and troubleshooting of a voice network over a wireless LAN from industry leader Jim Geier.

Next Generation Wireless LANs Jul 01 2022 A new edition of the most comprehensive and up-to-date overview of the features of the 802.11n and 802.11ac WLAN standards.

Securing Wireless LANs Mar 29 2022 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

Wireless Home Networking For Dummies Jul 29 2019 The perennial bestseller shows you how share your files and Internet connection across a wireless network Fully updated for Windows 7 and Mac OS X Snow Leopard, this new edition of this bestseller returns with all the latest in wireless standards and security. This fun and friendly guide shows you how to integrate your iPhone, iPod touch, smartphone, or gaming system into your home network. Veteran authors escort you through the various financial and logisitical considerations that you need to take into account before building a wireless network at home. Covers the basics of planning, installing, and using wireless LANs Reviews essential information on the latest security issues Delivers valuable tips on how to stay current with fast-moving technology Discusses how to share resources such as printers, scanners, an Internet connection, files, and more with multiple computers on one network Wireless Home Networking For Dummies, 4th Edition skips the technical jargon and gets you connected with need-to-know information on building a wireless home network.

802.11 Wireless Networks: The Definitive Guide Apr 29 2022 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.

Next Generation Wireless LANs Mar 17 2021 This exciting and comprehensive overview describes the underlying principles, implementation details, and key enhancing features of the new IEEE 802.11n standard, which has been created to significantly improve network throughput. A detailed discussion of important strength and reliability enhancing features is given in addition to a clear summary of any issues. Advanced topics are also covered. With numerous examples and simulation results included to highlight the benefits of the new features, this is an ideal reference for designers of Wireless Local Area Network (LAN) 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.

Wireless LANs Oct 04 2022 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.

Improving the Performance of Wireless LANs Jul 09 2020 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 results for the optimum planning and deployment of high performance WLAN systems in different residential and commercial buildings. Useful to students, faculties, researchers, engineers, and network developers, this must-have book not only explains the fundamentals of WLAN systems, including WLAN features and standards, but also: Supplies strategic guidelines for WLAN system design, modeling, and performance evaluation Includes radio propagation and site measurements as well as simulations for various network design scenarios Discusses environmental effects on WLAN performance, protocol redesign for routing and MAC, and traffic distribution Contains numerous illustrations and examples, plus chapter summaries, review questions, reading lists, mini-projects, an extensive glossary, and a list of acronyms Examines emerging and future network technologies, such as next generation Wi-Fi (802.11ac), very high throughput Wi-Fi (802.11ad), wireless mesh networking (802.11s), emergency QoS (802.11u), and vehicle-to-vehicle communications (802.11p) Improving the Performance of Wireless LANs: A Practical Guide makes the teaching, learning, and researching of advanced wireless network design and performance a more active process by using practical tools and exercises to add life to this highly technical subject.

Wireless Local Area Networks Sep 03 2022 Provides a practical introduction written by engineers from the leading wireless LAN manufacturers Each chapter brings the reader up-to-date with the latest in LAN technology from such companies as 3com, Alcatel, Ericsson, Intermec, Mobilian, Cisco Systems, Texas Instruments, Time Domain Corp., and Network Associates Provides detailed information for anyone who wants to learn about, implement, or invest in wireless LAN technology Features chapters on security, Bluetooth, spectrum allocation, QoS, ultra-wideband wireless, key standards, and more

Guide to Designing and Implementing Wireless LANs Jun 27 2019 A hands-on guide to planning, designing, installing and configuring wireless LANs from two of the principal Wireless LAN vendors, Cisco and 3Com. Extensive step-by-step coverage of implementation and troubleshooting is reinforced with hands-on projects at the end of each chapter.

Security in Wireless LANs and MANs Jun 07 2020 Providing a thorough explanation of the risks associated with WLAN and WMAN networks along with detailed descriptions of solutions to a range of security problems, this volume explains the hands-on techniques needed to secure both business and domestic wireless networks.

Wireless LANs and Bluetooth Dec 02 2019 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.

Wireless Networking Handbook Jan 03 2020 Wireless network technologies and standards. Analyzing the need for wireless networks. Implementing and supporting wireless networks. Appendixes.

Next Generation Wireless LANs Oct 24 2021 If you've been searching for a way to get up to speed on IEEE 802.11n and 802.11ac WLAN standards without having to wade through the entire specification, then look no further. This comprehensive overview describes the underlying principles, implementation details and key enhancing features of 802.11n and 802.11ac. For many of these features the authors outline the motivation and history behind their adoption into the standard. A detailed discussion of key throughput, robustness, and reliability enhancing features (such as MIMO, multi-user MIMO, 40/80/160 MHz channels, transmit beamforming and packet aggregation) is given, plus clear summaries of issues surrounding legacy interoperability and coexistence. Now updated and significantly revised, this 2nd edition contains new material on 802.11ac throughput, including revised chapters on MAC and interoperability, plus new chapters on 802.11ac PHY and multi-user MIMO. An ideal reference for designers of WLAN equipment, network managers, and researchers in the field of wireless communications.