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802.11 Wireless Networks: The Definitive Guide Wireless Network Security A Beginner's Guide CWNA Certified Wireless Network Administrator Study Guide Wireless Networking Absolute Beginner's Guide The Book of Wireless, 2nd Edition Guide to Wireless Communications Guide to Wireless Network Security Guide to Wireless Communications CWAP Certified Wireless Analysis Professional Official Study Guide The Hitchhiker's Guide to Going Wireless Webmasters Guide To The Wireless Internet CWTS: Certified Wireless Technology Specialist Official Study Guide Kali Linux Wireless Penetration Testing Beginner's Guide CCIE Wireless v3 Study Guide A Practical Guide to Testing Wireless Smartphone Applications CWSP Guide to Wireless Security WarDriving: Drive, Detect, Defend Wireless Connectivity Backtrack 5 Wireless Penetration Testing The Essential Guide to RF and Wireless Guide to Wireless Sensor Networks CWNA Guide to Wireless LANs OFDM Wireless LANs Absolute Beginner's Guide to Wi-Fi Wireless Networking CWNA Kali Linux Wireless Penetration Testing: Beginner's Guide CCNA Wireless 640-722 Official Cert Guide Guide to Wireless Mesh Networks CCNA Wireless Official Exam Certification Guide (CCNA IUNWE 640-721) Executive's Guide to the Wireless Workforce 802.11 Wireless Networks The Wireless Internet of Things A Guide to the Wireless Engineering Body of Knowledge (WEBOK) CWNA Certified Wireless Network Administrator Study Guide CWTS: Certified Wireless Technology Specialist Official Study Guide CWTS, CWS, and CWT Complete Study Guide The Essential Guide to Wireless Communications Applications CWAP Certified Wireless Analysis Professional Official Study Guide Designing and Deploying 802.11 Wireless Networks CCNA Wireless Study Guide

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. The only easy-to-understand guide to the wireless revolution! The easy-to-understand guide to the wireless revolution—fully updated for the latest technologies! New and expanded coverage: broadband fixed wireless, WLANs, wireless Internet, Bluetooth, smart antennas, and more Updated coverage of CDMA, GPS, LMDS, and WLL systems Concepts, terminology, components, and systems—plus new wireless glossary Perfect for marketers, investors, tech writers, PR specialists, and other non-engineers! There's a wireless revolution underway! With The Essential Guide to RF and Wireless, Second Edition, you can understand it, join it, and help drive it—even if you don't have a technical background. Leading consultant Carl J. Weisman has thoroughly updated this bestseller to reflect new market realities and breakthrough technologies—from wireless 802.11 LANs to broadband fixed wireless, and beyond. Mr. Weisman covers wireless at every level you need to understand: concepts, terminology, building blocks, and above all, how complete wireless systems actually work. Drawing on his extensive experience training sales professionals, he explains the essence of every key wireless/RF technology—clearly, comprehensibly, and with just the right touch of humor. Spread spectrum and CDMA: how they work and why they're important New! Detailed section on broadband fixed wireless: the new "last mile" solution for residential subscribers New! Satellite Internet delivery New! Smart antenna and superconducting filter technologies and their implications New! Wireless Internet, m-commerce, and Bluetooth Expanded! Global Positioning Systems: technologies and applications Updated! Preview the future of mobile telephony Updated! Wireless LANs and home networking From its all-new glossary to its extensive collection of charts, diagrams, and photographs, no other wireless/RF book is as accessible or as friendly! Whether you're a sales or marketing pro, customer, investor, tech writer, PR specialist, trade

press writer, analyst, planner, or student, here's the up-to-the-minute briefing you've been searching for! Wireless Connectivity: An Intuitive and Fundamental Guide Wireless connectivity has become an indispensable part, a commodity associated with the way we work and play. The latest developments, the 5G, next-generation Wi-Fi and Internet of Things connectivity, are the key enablers for widespread digitalization of practically all industries and public sector segments. This immense development within the last three decades have been accompanied by a large number of ideas, articles, patents, and even myths. This book introduces the most important ideas and concepts in wireless connectivity and discusses how these are interconnected, whilst the mathematical content is kept minimal. The book does not follow the established, linear structure in which one starts from the propagation and channels and then climbs up the protocol layers. The structure is, rather, nonlinear, in an attempt to follow the intuition used when one creates a new technology to solve a certain problem. The target audience is: Students in electronics, communication, and networking Wireless engineers that are specialized in one area, but want to know how the whole system works, without going through all the details and math Computer scientists that want to understand the fundamentals of wireless connectivity, the requirements and, most importantly, the limitations Engineers in energy systems, logistics, transport and other vertical sectors that are increasingly reliant on wireless technology The practice of WarDriving is a unique combination of hobby, sociological research, and security assessment. The act of driving or walking through urban areas with a wireless-equipped laptop to map both protected and un-protected wireless networks has sparked intense debate amongst lawmakers, security professionals, and the telecommunications industry. This first ever book on WarDriving is written from the inside perspective of those who have created the tools that make WarDriving possible and those who gather, analyze, and maintain data on all secured and open wireless access points in very major, metropolitan area worldwide. These insiders also provide the information to secure your wireless network before it is exploited by criminal hackers. * Provides the essential information needed to protect and secure wireless networks * Written from the inside perspective of those who have created the tools for WarDriving and those who gather, maintain and analyse data on wireless networks * This is the first book to deal with the hot topic of WarDriving Discusses the process of setting up and using a home or office wireless network, covering topics such as point-to-point networking, sniffer tools, and security. The official study guide for the Certified Wireless Analysis Professional certification from CWNP Four leading wireless experts thoroughly prepare you for the vendor-neutral CWAP exam administered by CWNP, the industry leader for enterprise Wi-Fi training and certification. This official study guide not only covers all exam objectives for the CWAP exam, it also prepares you to administer and troubleshoot complex enterprise WLAN environments. Covers all exam objectives for the Certified Wireless Analysis Professional (CWAP) exam Covers 802.11 physical (PHY) and 802.11 MAC layer frame formats and technologies Also covers 802.11 operation and frame exchanges, spectrum analysis and troubleshooting, and protocol analysis and troubleshooting Includes hands-on exercises using the Wireshark protocol analyzer and Fluke Network's Spectrum analyzer software Companion CD includes two practice exams and over 150 electronic flashcards Advancing your skills as a wireless administrator professional? Start by passing the CWAP exam with the complete test prep you'll find in this practical study guide and CD. Note: CD-ROM materials for eBook purchases can be downloaded from <http://booksupport.wiley.com> . Wireless has become ubiquitous in today's world. The mobility and flexibility provided by it makes our lives more comfortable and productive. But this comes at a cost – Wireless technologies are inherently insecure and can be easily broken. BackTrack is a penetration testing and security auditing distribution that comes with a myriad of wireless networking tools used to simulate network attacks and detect security loopholes. Backtrack 5 Wireless Penetration Testing Beginner's Guide will take you through the journey of becoming a Wireless hacker. You will learn various wireless testing methodologies taught using live examples, which you will implement throughout this book. The engaging practical sessions very gradually grow in complexity giving

you enough time to ramp up before you get to advanced wireless attacks. This book will take you through the basic concepts in Wireless and creating a lab environment for your experiments to the business of different lab sessions in wireless security basics, slowly turn on the heat and move to more complicated scenarios, and finally end your journey by conducting bleeding edge wireless attacks in your lab. There are many interesting and new things that you will learn in this book – War Driving, WLAN packet sniffing, Network Scanning, Circumventing hidden SSIDs and MAC filters, bypassing Shared Authentication, Cracking WEP and WPA/WPA2 encryption, Access Point MAC spoofing, Rogue Devices, Evil Twins, Denial of Service attacks, Viral SSIDs, Honeypot and Hotspot attacks, Caffe Latte WEP Attack, Man-in-the-Middle attacks, Evading Wireless Intrusion Prevention systems and a bunch of other cutting edge wireless attacks. If you were ever curious about what wireless security and hacking was all about, then this book will get you started by providing you with the knowledge and practical know-how to become a wireless hacker. Hands-on practical guide with a step-by-step approach to help you get started immediately with Wireless Penetration Testing 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. Provides a detailed analysis of the standards and technologies enabling applications for the wireless Internet of Things The Wireless Internet of Things: A Guide to the Lower Layers presents a practitioner's perspective toward the Internet of Things (IoT) focusing on over-the-air interfaces used by applications such as home automation, sensor networks, smart grid, and healthcare. The author—a noted expert in the field—examines IoT as a protocol-stack detailing the physical layer of the wireless links, as both a radio and a modem, and the media access control (MAC) that enables communication in congested bands. Focusing on low-power wireless personal area networks (WPANs) the text outlines the physical and MAC layer standards used by ZigBee, Bluetooth LE, Z-Wave, and Thread. The text deconstructs these standards and provides background including relevant communication theory, modulation schemes, and access methods. The author includes a discussion on Wi-Fi and gateways, and explores their role in IoT. He introduces radio topologies used in software-defined radio implementations for the WPANs. The book also discusses channel modelling and link budget analysis for WPANs in IoT. This important text: Introduces IEEE 802.15.4, ITU-T G.9959, and Bluetooth LE as physical layer technology standards enabling wireless IoT Takes a layered approach in order to cultivate an appreciation for the various standards that enable interoperability Provides clarity on wireless standards with particular focus on actual implementation Written for IoT application and platform developers as well as digital signal processing, network, and wireless communication engineers; The Wireless Internet of Things: A Guide to the Lower Layers offers an inclusive overview of the complex field of wireless IoT, exploring its beneficial applications that are proliferating in a variety of industries. 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. The ultimate reference on wireless technology—now updated and revised Fully updated to incorporate the latest developments and standards in the field, A Guide to the Wireless Engineering Body of Knowledge, Second Edition provides industry professionals with a one-stop reference to everything they need to design, implement, operate, secure, and troubleshoot wireless networks. Written by a group of international experts, the book offers an unmatched breadth of coverage and a unique focus on real-world engineering issues. The authors draw upon extensive experience in all areas of the technology to explore topics with proven practical applications, highlighting emerging areas such as Long Term Evolution (LTE) in wireless networks. The new edition is thoroughly revised for clarity, reviews wireless engineering fundamentals, and features numerous references for further study. Based on the areas of expertise covered in the IEEE Wireless Communication Engineering Technologies (WCET) exam, this book explains: Wireless access technologies, including the latest in mobile cellular technology Core network and service architecture, including important protocols and solutions Network management and security, from operations process models to key security issues Radio engineering and antennas, with specifics on radio frequency propagation and wireless link design Facilities infrastructure, from lightning protection to surveillance systems With this trusted reference at their side, wireless practitioners will get up to speed on advances and best practices in the field and acquire the common technical language and tools needed for working in different parts of the world. This book will be part of the CWNP suite of official titles, which also includes the CWTS: Certified Wireless Technology Specialist Official Study Guide, CWNA: Certified Wireless Network Administrator Official Study Guide, CWSP: Certified Wireless Security Professional Official Study Guide, and CWDP: Certified Wireless Design Professional Official Study Guide. This handy study guide will not only prepare the reader for the CWAP exam, but will also show the reader how to troubleshoot and analyze complex enterprise WLAN environments. The CWAP Study Guide will provide a real world perspective to give the reader the information they need to pass the exam. The book will cover all the exam objectives for the CWAP exam, including: 802.11 Physical (PHY) Layer Frame Formats and Technologies 802.11 MAC Layer Frame Formats and Technologies 802.11 Operation and Frame Exchanges Spectrum Analysis and Troubleshooting Protocol Analysis and Troubleshooting The book will include in-depth coverage of the exam objectives, as well as hands-on exercises using the Wireshark protocol analyzer software and Fluke Network's Spectrum analyzer software. Also included will be custom flash animations, chapter review questions, a detailed glossary, and a pre-assessment test. The CD includes two bonus exams and over 150 flashcards. NOTE: The exam this book covered, CWNA: Certified Wireless Network Administrator: Exam CWNA-106, was retired by CWNP in 2018 and is no longer offered. For coverage of the current exam CWNA: Certified Wireless Network Administrator - Exam CWNA-107, 5th Edition, please look for the latest edition of this guide: CWNA: Certified Wireless Network Administrator Study Guide - Exam CWNA-107, 5th Edition (9781119425786). The CWNA: Certified Wireless Network Administrator Official Study Guide: Exam CWNA-106 is the officially endorsed CWNA test prep for the leading wireless certification. Expert authors and CWNEs David D. Coleman and David A. Westcott guide readers through the skills and concepts candidates need to know for the exam, using hands-on methods to convey an in-depth understanding of wireless network administration. Readers should have a basic knowledge of Radio Frequency behavior, experience with WLAN hardware peripherals and protocols, and an interest in designing, installing, and managing wireless networks. Wireless technology is taking over the tech industry, and the demand for competent, certified professionals is far outpacing the supply. A CWNA certification denotes advanced-level proficiency in the field, with a complete understanding of wireless LAN components, features, and function—but the only way to pass the exam is to truly understand the material, not just the talking points. The CWNA: Certified Wireless Network Administrator Official Study Guide thoroughly covers each exam objective, and includes review questions, assessment tests, and exercises to

test your skills. Topics include: Radio Frequency technologies, regulations, and standards 802.11 protocols Network implementation and security 802.11 RF site surveying Readers also get access to a suite of study tools including an electronic test engine with hundreds or practice test questions, electronic flashcards, exercise peripherals, and industry White Papers, which serve as valuable backup references. In preparing for the CWNA-106 exam, the ideal study guide should cover all of the exam topics in depth—CWNA: Certified Wireless Network Administrator Official Study Guide does just that, making it an excellent, comprehensive study guide. If you are a security professional, pentester, or anyone interested in getting to grips with wireless penetration testing, this is the book for you. Some familiarity with Kali Linux and wireless concepts is beneficial. Readers learn about the most popular wireless data communications technologies in use today as GUIDE TO WIRELESS COMMUNICATIONS, 4Ed examines Bluetooth, ZigBee, Wi-Fi, cellular and satellite communications while providing a broad industry perspective. Readers develop a solid base of knowledge in Wireless Personal Area Networks (WPANs), Wireless Local Area Networks (WLANs), Wireless Metropolitan Area Networks (WMANs), and Wireless Wide Area Networks (WWANs) to better understand the most popular wireless communications available today. This book's comprehensive approach to wireless communication technology provides the solid background readers need to prepare for a future career in today's information and communications technology field. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

1. INTRODUCTION With the increasing deployment of wireless networks (802.11 architecture) in enterprise environments, IT enterprises are working to implement security mechanisms that are equivalent to those existing today for wire-based networks. An important aspect of this is the need to provide secure access to the network for valid users. Existing wired network jacks are located inside buildings already secured from unauthorized access through the use of keys, badge access, and so forth. A user must gain physical access to the building in order to plug a client computer into a network jack. In contrast, a wireless access point (AP) may be accessed from off the premises if the signal is detectable (for instance, from a parking lot adjacent to the building). Thus, wireless networks require secure access to the AP and the ability to isolate the AP from the internal private network prior to user authentication into the network domain. Furthermore, as enterprises strive to provide better availability of mission-critical wireless data, they also face the challenge of maintaining that data's security and integrity. While each connection with a client, a supplier or a enterprise partner can improve responsiveness and efficiency, it also increases the vulnerability of enterprise wireless data to attack. In such an environment, wireless network security is becoming more important every day. Also, with the growing reliance on e-commerce, wireless network-based services and the Internet, enterprises are faced with an ever-increasing responsibility to protect their systems from attack. Thoroughly prepare for the revised Cisco CCIE Wireless v3.x certification exams Earning Cisco CCIE Wireless certification demonstrates your broad theoretical knowledge of wireless networking, your strong understanding of Cisco WLAN technologies, and the skills and technical knowledge required of an expert-level wireless network professional. This guide will help you efficiently master the knowledge and skills you'll need to succeed on both the CCIE Wireless v3.x written and lab exams. Designed to help you efficiently focus your study, achieve mastery, and build confidence, it focuses on conceptual insight, not mere memorization. Authored by five of the leading Cisco wireless network experts, it covers all areas of the CCIE Wireless exam blueprint, offering complete foundational knowledge for configuring and troubleshooting virtually any Cisco wireless deployment. Plan and design enterprise-class WLANs addressing issues ranging from RF boundaries to AP positioning, power levels, and density Prepare and set up wireless network infrastructure, including Layer 2/3 and key network services Optimize existing wired networks to support wireless infrastructure Deploy, configure, and troubleshoot Cisco IOS Autonomous WLAN devices for wireless bridging Implement, configure, and manage AireOS Appliance, Virtual, and Mobility Express Controllers Secure wireless networks with Cisco Identity Services Engine: protocols, concepts, use cases, and configuration Set up and optimize management operations with Prime Infrastructure and MSE/CMX Design, configure, operate, and troubleshoot WLANs with real-time applications The bestselling nontechnical, guide to next-generation wireless applications, fully updated for the latest technologies and business realities. The book contains all-new coverage of wireless economics including the most promising opportunities in tough markets. Kali Linux Wireless Penetration Testing

Beginner's Guide, Third Edition presents wireless pentesting from the ground up, and has been updated with the latest methodologies, including full coverage of the KRACK attack. About This Book Learn wireless penetration testing with Kali Linux Detect hidden wireless networks and discover their names Explore advanced Wi-Fi hacking techniques including rogue access point hosting and probe sniffing Develop your encryption cracking skills and gain an insight into the methods used by attackers and the underlying technologies that facilitate these attacks Who This Book Is For Kali Linux Wireless Penetration Testing Beginner's Guide, Third Edition is suitable for anyone who wants to learn more about pentesting and how to understand and defend against the latest wireless network attacks. What You Will Learn Understand the KRACK attack in full detail Create a wireless lab for your experiments Sniff out wireless packets, hidden networks, and SSIDs Capture and crack WPA-2 keys Sniff probe requests and track users through their SSID history Attack radius authentication systems Sniff wireless traffic and collect interesting data Decrypt encrypted traffic with stolen keys In Detail As wireless networks become ubiquitous in our lives, wireless penetration testing has become a key skill in the repertoire of the professional penetration tester. This has been highlighted again recently with the discovery of the KRACK attack which enables attackers to potentially break into Wi-Fi networks encrypted with WPA2. The Kali Linux security distribution comes with a myriad of tools used for networking attacks and detecting security loopholes. Kali Linux Wireless Penetration Testing Beginner's Guide, Third Edition has been updated to Kali Linux 2017.3 with the latest methodologies, including full coverage of the KRACK attack and how to defend against it. The book presents wireless pentesting from the ground up, introducing all elements of penetration testing with each new technology. You'll learn various wireless testing methodologies by example, from the basics of wireless routing and encryption through to detailed coverage of hacking methods and attacks such as the Hirte and Caffe Latte. Style and approach Kali Linux Wireless Penetration Testing Beginner's Guide, Third Edition is a practical, hands-on guide to modern wi-fi network hacking. It covers both the theory and practice of wireless pentesting, offering detailed, real-world coverage of the latest vulnerabilities and attacks. Overview and Goals Wireless communication technologies are undergoing rapid advancements. The last few years have experienced a steep growth in research in the area of wireless sensor networks (WSNs). In WSNs, communication takes place with the help of spatially distributed autonomous sensor nodes equipped to sense specific information. WSNs, especially the ones that have gained much popularity in the recent years, are typically, ad hoc in nature and they inherit many characteristics/features of wireless ad hoc networks such as the ability for infrastructure-less setup, minimal or no reliance on network planning, and the ability of the nodes to self-organize and self-configure without the involvement of a centralized network manager, router, access point, or a switch. These features help to set up WSNs fast in situations where there is no existing network setup or in times when setting up a fixed infrastructure network is considered infeasible, for example, in times of emergency or during relief operations. WSNs find a variety of applications in both the military and the civilian population worldwide such as in cases of enemy intrusion in the battlefield, object tracking, habitat monitoring, patient monitoring, fire detection, and so on. Even though sensor networks have emerged to be attractive and they hold great promises for our future, there are several challenges that need to be addressed. Some of the well-known challenges are attributed to issues relating to coverage and deployment, scalability, quality-of-service, size, computational power, energy efficiency, and security. A complete guide to the CCNA Wireless exam by leading networking authority Todd Lammle The CCNA Wireless certification is the most respected entry-level certification in this rapidly growing field. Todd Lammle is the undisputed authority on networking, and this book focuses exclusively on the skills covered in this Cisco certification exam. The CCNA Wireless Study Guide joins the popular Sybex study guide family and helps network administrators advance their careers with a highly desirable certification. The CCNA Wireless certification is the most respected entry-level wireless certification for system administrators looking to advance their careers Written by Todd Lammle, the leading networking guru and author of numerous bestselling certification guides Provides in-depth coverage of every exam objective and the technology developed by Cisco for wireless networking Covers WLAN fundamentals, installing a basic Cisco wireless LAN and wireless clients, and implementing WLAN security Explains the operation of basic WCS, basic WLAN maintenance, and troubleshooting Companion CD includes the Sybex Test Engine, flashcards, and entire book in PDF format Includes hands-

on labs, end-of-chapter review questions, Exam Essentials overview, Real World Scenarios, and a tear-out objective map showing where each exam objective is covered. The CCNA Wireless Study Guide prepares any network administrator for exam success. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file. 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. Provides information on wireless networking, covering such topics as 802.11 standards, hotspots, and setting up a wireless network. Readers learn about the most popular wireless data communications technologies in use today as GUIDE TO WIRELESS COMMUNICATIONS, 4Ed examines Bluetooth, ZigBee, Wi-Fi, cellular and satellite communications while providing a broad industry perspective. Readers develop a solid base of knowledge in Wireless Personal Area Networks (WPANs), Wireless Local Area Networks (WLANs), Wireless Metropolitan Area Networks (WMANs), and Wireless Wide Area Networks (WWANs) to better understand the most popular wireless communications available today. This book's comprehensive approach to wireless communication technology provides the solid background readers need to prepare for a future career in today's information and communications technology field. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. The must-have guide to the CWTS exam, updated for 2017 CWTS Certified Wireless Technology Specialist Study Guide is your number-one resource for comprehensive exam preparation. Updated to study in 2017 and beyond, this book takes a multi-modal approach to ensure your complete confidence and ability for the big day: full coverage of all CWTS exam objectives reinforces your conceptual knowledge, hands-on exercises help hone your practical skills, and the Sybex online learning environment provides flashcards, a glossary, and review questions to help you test your understanding along the way. An objective map and pre-assessment test allow for more efficient preparation by showing you what you already know and what you need to review—and the companion website's complete practice exams give you a "dry run" so you can pinpoint weak areas while there's still time to improve. If you're serious about earning your CWTS certification, this book is your ideal companion for complete and thorough preparation. Learn critical concepts and apply essential skills in areas like hardware and software, radio frequency fundamentals, surveying and installation, support, troubleshooting, security, and more. This guide gives you everything you need to approach the exam with confidence. Master 100 percent of the CWTS exam objectives Use effective planning tools to get the most out of your study time Practice your skills with hands-on exercises and real-world scenarios Access online study aids that let you review any time, any place The CWTS certification gets your foot in the door of a growing industry, and is a stepping stone to the industry standard CWNP certification. The exam will test your abilities in all fundamental areas of Wi-Fi technology, so it's important that your study plan be complete and up-to-date. CWTS Certified Wireless Technology Specialist Study Guide is your ideal solution for comprehensive preparation. Overview and Goals Wireless communication technologies are undergoing

rapid advancements. The last few years have experienced a steep growth in research in the area of wireless mesh networks (WMNs). The attractiveness of WMNs, in general, is attributed to their characteristics such as the ability to dynamically self-organize and self-configure, coupled with the ability to maintain mesh connectivity leading, in effect, to low set-up/installation costs, simpler maintenance tasks, and service coverage with high reliability and fault-tolerance. WMNs also support their integration with existing wireless networks such as cellular networks, WLANs, wireless-fidelity (Wi-Fi), and worldwide interoperability of microwave access (WiMAX). WMNs have found useful applications in a broad range of domains such as broadband home networking, commercial/business networking, and community networking - particularly attractive in offering broadband wireless access with low initial installation and set-up costs. Even though WMNs have emerged to be attractive and they hold great promises for our future, there are several challenges that need to be addressed. Some of the wellknown challenges are attributed to issues relating to scalability (significantly drop in throughput with the increase in the number of nodes), multicasting, offering quality of service guarantees, energy efficiency, and security. This handbook attempts to provide a comprehensive guide on fundamental key topics coupled with new ideas and results in the areas of WMNs. The book has been prepared keeping in mind that it needs to prove itself to be a valuable resource dealing with both the important core and the specialized issues in WMNs. You don't want or need to understand every minute detail of how wireless works; you just want to learn how to effectively use wireless to impact your bottom line. Executive's Guide to the Wireless Workforce avoids excessive use of buzzwords, acronyms, and consultantese to provide you with a succinct and straightforward template for defining, assessing, and deploying wireless technologies at every level of your organization—to lower your costs, deepen your customer interactions, and strengthen your competitive position in today's increasingly mobile marketplace. Order your copy today! With transfer speeds up to 11 Mbps the 802.11 wireless network standard is set to revolutionize wireless LANs. Matthew Gast's definitive guide to the standard is aimed at administrators, architects and security professionals. About the Book This Official Study Guide for the CWTS exam features complete coverage of the exam objectives, as well as hands-on exercises, Real World Scenarios, chapter review questions, a detailed glossary, objective map, and a pre-assessment test. The enhanced CD includes two bonus exams, 150 flashcards, Case Studies, and demo software. Exam coverage includes: Wi-Fi Technology, Standards, and Certifications Hardware and Software Radio Frequency (RF) Fundamentals Site Surveying and Installation Applications, Support, and Troubleshooting Security & Compliance About the CWTS Certification The Certified Wireless Technology Specialist (CWTS) is a vendor-neutral certification administered by CWNP. This brand new certification is the only entry-level vendor neutral wireless certification for IT Professionals, and was developed for IT support staff who work with wireless technologies. It is a springboard to the foundation-level Certified Wireless Network Administrator (CWNA), and more advanced Certified Wireless Security Professional (CWSP) and Certified Wireless Network Expert (CWNE) certifications. The exam is offered in over 100 countries through both Prometric and Pearson VUE testing centers. The cost of the exam is \$125. Note: CD-ROM materials for eBook purchases can be downloaded from CWNP's website at www.cwnp.com/sybex The wireless Web is a reality - don't get left behind! The wireless Web is not a future dream. It is here today. Already, more than 20 million people have access the Internet through PDAs, mobile phones, pagers and other wireless devices. What will people find on the Wireless Internet? This is the question that every Webmaster and Web developer is being challenged to answer. The Webmaster's Guide to the Wireless Internet provides the Wireless Webmaster with all of the tools necessary to build the next generation Internet. Packed with the essential information they need to design, develop, and secure robust, e-commerce enabled wireless Web sites. This book is written for advanced Webmasters who are experienced with conventional Web site design and are now faced with the challenge of creating sites that fit on the display of a Web enabled phone or PDA. The rapid expansion of wireless devices presents a huge challenge for Webmasters - this book addresses that need for reliable information There are lots of books for wireless developers - this is the first designed specifically for Webmasters Looks at security issues in a Wireless environment Security Smarts for the Self-Guided IT Professional Protect wireless networks against all real-world hacks by learning how hackers operate. Wireless Network Security: A Beginner's Guide discusses the many attack vectors that target wireless networks and clients--and explains how to identify and prevent them. Actual cases of attacks

against WEP, WPA, and wireless clients and their defenses are included. This practical resource reveals how intruders exploit vulnerabilities and gain access to wireless networks. You'll learn how to securely deploy WPA2 wireless networks, including WPA2-Enterprise using digital certificates for authentication. The book provides techniques for dealing with wireless guest access and rogue access points. Next-generation wireless networking technologies, such as lightweight access points and cloud-based wireless solutions, are also discussed. Templates, checklists, and examples give you the hands-on help you need to get started right away. **Wireless Network Security: A Beginner's Guide** features: Lingo--Common security terms defined so that you're in the know on the job IMHO--Frank and relevant opinions based on the author's years of industry experience In Actual Practice--Exceptions to the rules of security explained in real-world contexts Your Plan--Customizable checklists you can use on the job now Into Action--Tips on how, why, and when to apply new skills and techniques at work This is an excellent introduction to wireless security and their security implications. The technologies and tools are clearly presented with copious illustrations and the level of presentation will accommodate the wireless security neophyte while not boring a mid-level expert to tears. If the reader invests the time and resources in building a lab to follow along with the text, s/he will develop a solid, basic understanding of what "wireless security" is and how it can be implemented in practice. This is definitely a recommended read for its intended audience. - Richard Austin, IEEE CIPHER, IEEE Computer Society's TC on Security and Privacy (E109, July 23, 2012) The #1 selling Wi-Fi networking reference guide in the world The CWNA: Certified Wireless Network Administrator Study Guide is the ultimate preparation resource for the CWNA exam. Fully updated to align with the latest version of the exam, this book features expert coverage of all exam objectives to help you pass the exam. But passing the exam is just a first step. For over 16 years, the CWNA Study Guide has helped individuals jump-start their wireless networking careers. Wireless networking professionals across the globe use this book as their workplace reference guide for enterprise Wi-Fi technology. Owning this book provides you with a foundation of knowledge for important Wi-Fi networking topics, including: Radio frequency (RF) fundamentals 802.11 MAC and medium access Wireless LAN topologies and architecture WLAN design, troubleshooting and validation Wi-Fi networking security The book authors have over 40 years of combined Wi-Fi networking expertise and provide real-world insights that you can leverage in your wireless networking career. Each of the book's 20 chapters breaks down complex topics into easy to understand nuggets of useful information. Each chapter has review questions that help you gauge your progress along the way. Additionally, hands-on exercises allow you to practice applying CWNA concepts to real-world scenarios. You also get a year of free access to the Sybex online interactive learning environment, which features additional resources and study aids, including bonus practice exam questions. The CWNA certification is a de facto standard for anyone working with wireless technology. It shows employers that you have demonstrated competence in critical areas, and have the knowledge and skills to perform essential duties that keep their wireless networks functioning and safe. The CWNA: Certified Wireless Network Administrator Study Guide gives you everything you need to pass the exam with flying colors. Make the most of your wireless network...without becoming a technical expert! This book is the fastest way to connect all your wireless devices, get great performance with everything from streaming media to printing, stay safe and secure, and do more with Wi-Fi than you ever thought possible! Even if you've never set up or run a network before, this book will show you how to do what you want, one incredibly clear and easy step at a time. Wireless networking has never, ever been this simple! Who knew how simple wireless networking could be? This is today's best beginner's guide to creating, using, troubleshooting, and doing more with your wireless network...simple, practical instructions for doing everything you really want to do, at home or in your business! Here's a small sample of what you'll learn: • Buy the right equipment without overspending • Reliably connect Windows PCs, Macs, iPads, Android tablets, game consoles, Blu-ray players, smartphones, and more • Get great performance from all your networked devices • Smoothly stream media without clogging your entire network • Store music and movies so you can play them anywhere in your home • Keep neighbors and snoopers out of your network • Share the files you want to share--and keep everything else private • Automatically back up your data across the network • Print from anywhere in the house--or from anywhere on Earth • Extend your network to work reliably in larger homes or offices • Set up a "guest network" for visiting friends and family • View streaming videos and other web

content on your living room TV • Control your networked devices with your smartphone or tablet • Connect to Wi-Fi hotspots and get online in your car • Find and log onto hotspots, both public and hidden • Quickly troubleshoot common wireless network problems Michael Miller is the world's #1 author of beginning computer books. He has written more than 100 best-selling books over the past two decades, earning an international reputation for his friendly and easy-to-read style, practical real-world advice, technical accuracy, and exceptional ability to demystify complex topics. His books for Que include Computer Basics Absolute Beginner's Guide; Facebook for Grown-Ups; My Pinterest; Ultimate Digital Music Guide; Speed It Up! A Non-Technical Guide for Speeding Up Slow PCs, and Googlepedia: The Ultimate Google Resource. 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"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/authorizedtraining. 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 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 802.11X 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 Testing applications for mobile phones is difficult, time-consuming, and hard to do effectively. Many people have limited their testing efforts to hands-on testing of an application on a few physical handsets, and they have to repeat the process every time a new version of the software is ready to test. They may miss many of the permutations of real-world use, and as a consequence their users are left with the unpleasant mess of a failing application on their phone. Test automation can help to increase the range and scope of testing, while reducing the overhead of manual testing of each version of the software. However automation is not a panacea, particularly for mobile applications, so we need to pick our test automation challenges wisely. This book is intended to help software and test engineers pick appropriately to achieve more; and as a consequence deliver better quality, working software to users. This Synthesis lecture provides practical advice based on direct experience of using software test automation to help improve the testing of a wide range of mobile phone applications, including the latest AJAX applications. The focus is on applications that rely on a wireless network connection to a remote server, however the principles may apply to other related fields and applications. We start by explaining terms and some of the key challenges involved in testing smartphone applications. Subsequent chapters describe a type of application e.g. markup, AJAX, Client, followed by a related chapter on how to test each of these applications. Common test automation techniques are covered in a separate chapter, and finally there is a brief chapter on when to test manually. The book also contains numerous pointers and links to further material to help you to improve your testing using automation appropriately. Table of Contents: Introduction / Markup Languages / Testing Techniques for Markup Applications / AJAX Mobile Applications / Testing Mobile AJAX Applications / Client Applications / Testing Techniques for Client Applications / Common Techniques / When to Test Manually / Future Work / Appendix A: Links and References / Appendix

B: Data Connectivity / Appendix C: Configuring Your Machine NOTE: The exam this book covered, CWTS: Certified Wireless Technology Specialist (PW0-071), was retired by CWNP in 2017 and is no longer offered. For coverage of the current exam CWTS, CWS, and CWT: Exams PW0, please look for the latest edition of this guide: CWTS, CWS, and CWT Complete Study Guide: Exams PW0 (9781119385035). Completely updated to cover the latest Certified Wireless Technology Specialist exam, this best-selling guide is the only Official Study Guide for the popular wireless certification. This foundation-level certification is in high demand for wireless networking professionals, and you can master all the exam topics with this Official guide. It covers all the exam objectives and helps you study with hands-on exercises, chapter review questions, an objective map, a pre-assessment test, and additional study tools on the companion website. The only official study guide endorsed by CWNP Thoroughly covers all exam objectives, including Wi-Fi Technology, Standards, and Certifications; Hardware and Software; Radio Frequency (RF) Fundamentals; Site Surveying and Installation; Applications, Support, and Troubleshooting; and Security & Compliance Includes hands-on exercises and real-world scenarios to increase understanding Study aids include review questions, glossary, objective map, sample tests, and electronic flashcards CWTS: Certified Wireless Technology Specialist Official Study Guide, 2nd Edition is the study buddy that will enhance your chances for exam success. Note: CD-ROM materials for eBook purchases can be downloaded from <http://booksupport.wiley.com>. Accompanying CD includes 170 unique practice exam questions. One of the fastest-growing certifications on the market, CWNA is rapidly becoming the premier professional wireless certification for network administrators. It is also the foundation-level exam for the complete Certified Wireless Network Professional program. Now you can join the move to Wi-Fi and prepare for your certification with this comprehensive and targeted study guide. This value-packed book includes: Practical information on designing, installing, and managing wireless networks, including the new 802.11 standards Challenging practice questions and hands-on exercises A test engine with bonus exams and over 150 electronic flashcards A pre-assessment test A detailed glossary Inside, find authoritative coverage of all exam PW0-100 objectives, including: Radio Technologies Antenna Concepts Wireless LAN Hardware and Software Network Design, Installation, and Management Wireless Standards and Organizations 802.11 Network Architecture Wireless LAN Security Troubleshooting Performing Site Surveys Featured on the CD SYBEX TEXT ENGINE: Test your knowledge with advanced testing software. Includes all chapter review questions and bonus exams. ELECTRONIC FLASHCARDS: Reinforce your understanding with flashcards that can run on your PC, Pocket PC, or Palm handheld. Also on CD, you'll find the entire book in searchable and printable PDF, as well as valuable tools, demo software, and white papers that will supplement your certification preparation. Visit www.sybex.com Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

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