Maximum Wireless Security

Wireless Security: Know It AllGuide to Wireless Network SecurityWireless Security and PrivacySecurity in Wireless Communication NetworksReal 802.11 SecurityWireless Network Security A Beginner's GuideWireless Security and CryptographyHandbook of Communications SecurityWireless Network SecurityWireless Security HandbookThe Executive MBA in Information SecurityInside Radio: An Attack and Defense GuideGoing MobileMaximum Wireless SecurityIs It Safe? Protecting Your Computer, Your Business, and Yourself OnlineHow Secure is Your Wireless Network?Wireless Security: Models, Threats, and SolutionsThe Comprehensive Guide to Cybersecurity CareersWireless SecurityBulletproof Wireless Security Praphul Chandra John R. Vacca Tara M. Swaminatha Yi Qian Jon Edney Tyler Wrightson Nicolas Sklavos F. Garzia Yang Xiao Aaron E. Earle Jr., John J. Trinckes Qing Yang Keri Hayes Cyrus Peikari Michael Miller Lee Barken Randall K. Nichols Jason Edwards Wolfgang Osterhage Praphul Chandra

An Attack and Defense Guide Going Mobile Maximum Wireless Security Is It Safe? Protecting Your Computer, Your Business, and Yourself Online How Secure is Your Wireless Network? Wireless Security: Models, Threats, and Solutions The Comprehensive Guide to Cybersecurity Careers Wireless Security Bulletproof Wireless Security *Praphul Chandra John R. Vacca Tara M. Swaminatha Yi Qian Jon Edney Tyler Wrightson Nicolas Sklavos F. Garzia Yang Xiao Aaron E. Earle Jr., John J. Trinckes Qing Yang Keri Hayes Cyrus Peikari Michael Miller Lee Barken Randall K. Nichols Jason Edwards Wolfgang Osterhage Praphul Chandra*

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 communications engineers need to master a wide area of topics to excel the wireless security know it all covers every angle including emerging wireless technologies and security issues wireless lan and man security as well as wireless personal area networks a 360 degree view from our best selling authors topics include today s wireless technology security definitions and concepts and wireless handheld devices the ultimate hard working desk reference all the essential information techniques and tricks of the trade in one volume

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

before wireless commerce or even wireless access to the corporate network can really take off organizations are going to have to improve their efforts in wireless security wireless security and privacy presents a complete methodology for security professionals and wireless developers to coordinate their efforts establish wireless security best practices and establish security measures that keep pace with development the material shows how to develop a risk model and shows how to implement it through the lifecycle of a system coverage includes the essentials on cryptography and privacy issues in order to design appropriate security applications the authors teach the limitations inherent in wireless devices as well as best methods for developing secure software for them the authors combine the right amount of technological background in conjunction with a defined process for assessing wireless security

receive comprehensive instruction on the fundamentals of wireless security from three leading international voices in the field security in wireless communication networksdelivers a thorough grounding in wireless communication security the distinguished authors pay particular attention to wireless specific issues like authentication protocols for various wireless communication networks encryption algorithms and integrity schemes on radio channels lessons learned from designing secure wireless systems and standardization for security in wireless systems the book addresses how engineers administrators and others involved in the design and maintenance of wireless networks can achieve security while retaining the broadcast nature of the system with all of its inherent harshness and interference readers will learn a comprehensive introduction to the background of wireless communication network security including a broad overview of wireless communication networks security services the mathematics crucial to the subject and cryptographic techniques an exploration of wireless local area network security including bluetooth security wi fi security and body area network security an examination of wide area wireless network security including treatments of 2g 3g and 4g discussions of future development in wireless security including 5g and vehicular ad hoc network security perfect for undergraduate and graduate students in programs related to wireless communication security in wireless communication networks will also earn a place in the libraries of professors researchers scientists engineers industry managers consultants and members of government security agencies who seek to improve their understanding of wireless security protocols and practices

this book describes new approaches to wireless security enabled by the recent development of new core technologies for wi fi 802 11 it shows how the new approaches work and how they should be applied for maximum effect for system administrators product designers or advanced

home users

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

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as the use of wireless devices becomes widespread so does the need for strong and secure transport protocols even with this intensified need for securing systems using cryptography does not seem to be a viable solution due to difficulties in implementation the security layers of many wireless protocols use outdated encryption algorithms which have proven unsuitable for hardware usage particularly with handheld devices summarizing key issues involved in achieving desirable performance in security implementations wireless security and cryptography specifications and implementations focuses on alternative integration approaches for wireless communication security it gives an overview of the current security layer of wireless protocols and presents the performance characteristics of implementations in both software and hardware this resource also presents efficient and novel methods to execute security schemes in wireless protocols with high performance it provides the state of the art research trends in implementations of wireless protocol security for current and future wireless communications unique in its coverage of specification and implementation concerns that include hardware design techniques wireless security and cryptography specifications and implementations provides thorough coverage of wireless network security and recent research directions in the field

communications represent a strategic sector for privacy protection and for personal company national and international security the interception damage or lost of information during communication can generate material and non material economic damages from both a personal and collective point of view the purpose of this book is to give the reader information relating to all aspects of communications security beginning at the base ideas and building to reach the most advanced and updated concepts the book will be of interest to integrated system designers

telecommunication designers system engineers system analysts security managers technicians intelligence personnel security personnel police army private investigators scientists graduate and postgraduate students and anyone that needs to communicate in a secure way

this book identifies vulnerabilities in the physical layer the mac layer the ip layer the transport layer and the application layer of wireless networks and discusses ways to strengthen security mechanisms and services topics covered include intrusion detection secure phy mac routing protocols attacks and prevention immunization key management secure group communications and multicast secure location services monitoring and surveillance anonymity privacy trust establishment management redundancy and security and dependable wireless networking

the wireless security handbook provides a well rounded overview of wireless network security it examines wireless from multiple perspectives including those of an auditor security architect and hacker this wide scope benefits anyone who has to administer secure hack or conduct business on a wireless network this text tackles wirele

according to the brookings institute an organization s information and other intangible assets account for over 80 percent of its market value as the primary sponsors and implementers of information security programs it is essential for those in key leadership positions to possess a solid understanding of the constantly evolving fundamental conc

this book discusses the security issues in a wide range of wireless devices and systems such as rfid bluetooth zigbee gsm lte and gps it collects the findings of recent research by the unicornteam at 360 technology and reviews the state of the art literature on wireless security the book

also offers detailed case studies and theoretical treatments specifically it lists numerous laboratory procedures results plots commands and screenshots from real world experiments it is a valuable reference guide for practitioners and researchers who want to learn more about the advanced research findings and use the off the shelf tools to explore the wireless world

this is the first business book to come through my desk which merits a mention of good content i liked the content in the fact that it gave me an overview from a business perspective the book brings smart information for the uninformed manager

0672324881 ld a detailed guide to wireless vulnerabilities written by authors who have first hand experience with wireless crackers and their techniques wireless technology and internet security are the two fastest growing technology sectors includes a bonus cd packed with powerful free and demo tools to audit wireless networks reviewed and endorsed by the author of wepcrack a well known tool for breaking 802 11 wep encryption keys maximum wireless securityis a practical handbook that reveals the techniques and tools crackers use to break into wireless networks and that details the steps network administrators need to take to secure their systems the authors provide information to satisfy the experts hunger for in depth information with actual source code real world case studies and step by step configuration recipes the book includes detailed hands on information that is currently unavailable in any printed text information that has been gleaned from the authors work with real wireless hackers war drivers wireless security developers and leading security experts cyrus peikariis the chief technical officer for virusmd corporation and has several patents pending in the anti virus field he has published several consumer security software programs including an encrypted instant messenger a personal firewall a content filter and a suite of network connectivity tools he is a repeat speaker at

defcon seth fogie mcse is a former united state navy nuclear engineer after retiring he has worked as a technical support specialist for a major internet service provider he is currently the director of engineering at virusmd corporation where he works on next generation wireless security software he has been invited to speak at defcon in 2003

is it safe protecting your computer your business and yourself online identity theft data theft internet fraud online surveillance email scams hacks attacks and viruses the internet is a dangerous place in years past you could protect your computer from malicious activity by installing an antivirus program and activating a firewall utility unfortunately that s no longer good enough the internet has become a much darker place plagued not only by rogue software but also by dangerous criminals and shadowy government agencies is it safe addresses the new generation of security threat it presents information about each type of threat and then discusses ways to minimize and recover from those threats is it safe differs from other security books by focusing more on the social aspects of online security than purely the technical aspects yes this book still covers topics such as antivirus programs and spam blockers but it recognizes that today s online security issues are more behavioral in nature phishing schemes email scams and the like are you being scammed learn how to spot the newest and most insidious computer security threats fraudulent retailers ebay scammers online con artists and the like is your identity safe avoid being one of the nine million americans each year who have their identities stolen today s real internet threats aren t viruses and spam today s real threat are thieves who steal your identity rack up thousands on your credit card open businesses under your name commit crimes and forever damage your reputation is big brother watching get the scoop on online tracking and surveillance we examine just who might be tracking your online activities and why is your employer

watching you how to tell when you re being monitored and how to determine what is acceptable and what isn t michael miller has written more than 80 nonfiction books over the past two decades his best selling books include que s youtube 4 you googlepedia the ultimate google resource ipodpedia the ultimate ipod and itunes resource and absolute beginner s guide to computer basics he has established a reputation for clearly explaining technical topics to nontechnical readers and for offering useful real world advice about complicated topics

a guide to implementing a realistic successful game plan for safe and secure wireless lans this volume has step by step guidelines and best practices for deploying secure wireless lans in an enterprise or home environment and also within community networks

nichols and lekkas uncover the threats and vunerablilities unique to the wireless communication telecom broadband and satellite markets they provide an overview of current commercial security solutions available on the open market

the comprehensive guide to cybersecurity careers is the definitive resource for aspiring and established cybersecurity professionals this guide delves deep into the ever changing cybersecurity landscape providing insights into the diverse career paths within the industry from technical roles like security analysts to strategic positions in policy development this book covers a broad spectrum of opportunities in the field it highlights the importance of staying ahead in the cybersecurity arms race emphasizing continuous learning and adaptation to face advanced threats the guide also offers practical advice on essential skills understanding industry trends and the impact of high profile cyber incidents this book is more than a mere information source it s a dynamic tool that evolves with the field and its readers it encourages active engagement and

contribution to the cybersecurity community with its focus on building professional networks navigating the hiring process and strategies for career advancement the comprehensive guide to cybersecurity careers is an invaluable asset for anyone aiming to forge a successful and impactful career in cybersecurity whether starting fresh or seeking to enhance existing expertise this guide is an indispensable companion in the journey through the complex world of digital security key features comprehensive career exploration explores responsibilities necessary skills and qualifications for a wide range of cybersecurity roles from technical positions to management and emerging fields like ai and cloud security educational pathways overview offers insight into various educational options for cybersecurity including university programs adult professional programs and self study methods emphasizing the importance of lifelong learning certification guidance details information on essential cybersecurity certifications including a roadmap for obtaining them and a comprehensive list of certifications suitable for beginners and advanced professionals emphasis on soft skills discusses the importance of soft skills like teamwork critical thinking and stress management in cybersecurity portfolio development provides strategies for building a strong professional portfolio including tips on showcasing problem solving skills gaining credibility and leveraging experiences for career advancement job market navigation offers practical advice on job search strategies resume tailoring interview preparation and effective use of professional networking linkedin networking features specific tactics for optimizing linkedin profiles for cybersecurity professionals and strategies for engaging with the industry through this platform sector specific cybersecurity insights details cybersecurity challenges and opportunities in various sectors like finance healthcare government and more future trends and career adaptation discusses adapting to evolving roles in cybersecurity including the impact of automation ai and the importance of keeping skills relevant in a fast paced industry wav features a behavioral interview prep guide for

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in the wake of the growing use of wireless communications new types of security risks have evolved wireless security covers the major topic of wireless communications with relevance both to organizations and private users the technological background of these applications and protocols is laid out and presented in detail special emphasis is placed on the ieee 802 11x standards that have been introduced for wlan technology other technologies covered besides wlan include mobile phones bluetooth and infrared in each chapter a major part is devoted to security risks and provisions including encryption and authentication philosophies elaborate checklists have been provided to help it administrators and security officers to achieve the maximum possible security in their installations when using wireless technology the book offers all necessary background information to this complex technological subject it is at the same time a guideline and a working tool to implement a security strategy in organizations assists in documenting the actual security status of existing installations helps to avoid pitfalls when operating in a wireless environment and in configuring the necessary components

finally a single volume guide to really effective security for both voice and data wireless networks more and more data and voice communications are going via wireless at some point between the sender and intended recipient as a result truly bulletproof wireless security is now more than a desirable feature instead it s a necessity to protect essential personal and business data from hackers and eavesdroppers in this handy reference praphul chandra gives you the conceptual and practical tools every rf wireless and network engineer needs for high security wireless applications inside this book you ll find coverage of these essential topics cryptographic protocols used in wireless networks key based

protocols including key exchange and authentication techniques various types of wireless network attacks including reflection session hijacks and fluhrer mantin shamir fms attacks encryption decryption standards and methods multi layered security architectures secure sockets layer ssl and transport layer security tls protocols cellular telephone network architectures and their vulnerabilities modulation techniques such as direct sequence spread spectrum dsss and orthogonal frequency division multiplexing ofdm and you ll also find coverage on such cutting edge topics as security techniques for ad hoc networks and protecting bluetooth networks if you re serious about wireless security then this title belongs on your reference bookshelf

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