

Hacking Wireless Networks The Ultimate Hands On

802.11 Wireless Networks: The Definitive Guide
Designing and Deploying 802.11 Wireless
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Encyclopedia of Wireless Networks
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Network and System Security
Wireless Networking: Know It All
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Complete
Heterogeneous Wireless Access Networks
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Cloud Based 5G
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Advanced Wireless Networks
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Matthew S. Gast Jack L. Burbank Syngress Kaveh Pahlavan Kaveh Pahlavan Jianwei Huang Nurul
Huda Mahmood George Aggelou Savo G. Glisic

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Syngress Kaveh Pahlavan Kaveh Pahlavan Jianwei Huang Nurul Huda Mahmood George Aggelou
Savo G. Glisic*

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 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

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 w lans 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 w lans 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 distribut

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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 w lans 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 cell

wireless communications offer organizations and users many benefits such as portability and flexibility increased productivity and lower installation costs wireless technologies cover a broad range of differing capabilities oriented toward different uses and needs this chapter classifies wireless network security threats into one of nine categories errors and omissions fraud and theft committed by authorized or unauthorized users of the system employee sabotage loss of physical and infrastructure support malicious hackers industrial espionage malicious code foreign government espionage and threats to personal privacy all of the preceding represent potential threats to wireless networks however the more immediate concerns for wireless communications are fraud and theft malicious hackers malicious code and industrial and foreign espionage theft is likely to occur with wireless devices due to their portability authorized and unauthorized users of the system may commit fraud and theft however the former are more likely to carry out such acts since users of a system may know what resources a system has and the system security flaws it is easier for them to commit fraud and theft malicious hackers sometimes called crackers are individuals who break into a system without authorization usually for personal gain or to do harm malicious hackers are generally individuals from outside of an organization although users within an organization can be a threat as well such hackers may gain access to the wireless network access point by eavesdropping on wireless device communications malicious code involves viruses worms trojan horses logic bombs or other unwanted software that is designed to damage files or bring down a system industrial and foreign espionage involve gathering proprietary data from corporations or intelligence information from governments through eavesdropping in wireless networks the espionage threat stems from the relative ease in which eavesdropping can occur on radio transmissions this chapter provides an overview of wireless networking security technologies most commonly used in an office environment and by the mobile workforce of today also this chapter seeks to assist organizations in reducing the risks associated with 802.11 wireless lans cellular networks wireless ad hoc networks and for

ensuring security when using handheld devices

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 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 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

heterogeneous wireless networking which is sometimes referred to as the fourth generation 4g wireless is a new frontier in the future wireless communications technology and there has been a growing interest on this topic among researchers and engineers in both academia and industry this book will include a set of research and survey articles featuring the recent advances in theory and applications of heterogeneous wireless networking technology for the next generation e.g. fourth generation wireless communications systems with the rapid growth in the number of wireless applications services and devices using a single wireless technology such as a second generation 2g and third generation 3g wireless system would not be efficient to deliver high speed data rate and quality of service qos support to mobile users in a seamless way fourth generation 4g wireless systems are devised with the vision of heterogeneity in which a mobile user device will be able to

connect to multiple wireless networks e.g wlan cellular wman simultaneously this book intends to provide a unified view on the state of the art of protocols and architectures for heterogeneous wireless networking the contributed articles will cover both the theoretical concepts and system level implementation issues related to design analysis and optimization of architectures and protocols for heterogeneous wireless access networks

this unique and practical text introduces the principles of wlangs based upon the ieee 802.11 standards demonstrating how to configure equipment in order to implement various network solutions the text is supported by examples and detailed instructions

this springerbrief introduces key techniques for 5g wireless networks the authors cover the development of wireless networks that led to 5g and how 5g mobile communication technology 5g can no longer be defined by a single business model or a typical technical characteristic the discussed networks functions and services include network foundation virtualization nfv cloud radio access networks cloud ran and mobile cloud networking mcn the benefits of cloud platforms are examined as are definable networking and green wireless networking other related and representative projects on 5g are mobile and wireless communications enablers for the twenty twenty information society multi hop cellular networks network function as a service over virtualized infrastructures ijoin and nuage virtualized services platform major applications of 5g range from ran sharing and multi operator core networks to mobile convergence enhancing the user experience by providing smart and customized services 5g will support the explosive growth of big data mobile internet digital media and system efficiency this springerbrief is designed for professionals researchers and academics working in networks or system applications advanced level students of computer science or computer engineering will also find the content valuable

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

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

business is on the move mobile computing must keep up innovative technology is making the communication between computers a cordless affair mobile computing with laptops hand helds and mobile phones is increasing the demand for reliable and secure wireless networks network engineers and consultants need to create and build cutting edge wireless networks in both the small business and multi million dollar corporations designing wireless networks provides the necessary information on how to design and implement a wireless network beginning with detailed descriptions of the various implementations and architectures of wireless technologies and moving to the step by step instructions on how to install and deploy a fixed wireless network this book will teach users with no previous wireless networking experience how to design and build their own wireless network based on the best practices of the enhanced services from lucent technologies timely coverage of new technologies communication without cables is the future of networking advocates wireless networking solutions for any user regardless of location device or connection written by experts the authors are leading wan authorities at lucent technologies no previous wireless experience is assumed however readers should have a basic understanding of networking and tcp ip protocols

towards location aware mobile ad hoc sensors a systems engineering approach to wireless information networks the second edition of this internationally respected textbook brings readers fully up to date with the myriad of developments in wireless communications when first published in 1995 wireless communications was synonymous with cellular telephones now wireless information networks are the most important technology in all branches of telecommunications readers can learn about the latest applications in such areas as ad hoc sensor networks home networking and wireless positioning wireless information networks takes a systems engineering approach technical topics are presented in the context of how they fit into the ongoing development of new systems and services as well as the recent developments in national and international spectrum allocations and standards the authors have organized the myriad of current and emerging wireless technologies into logical categories introduction to wireless networks presents an up to the moment discussion of the evolution of the cellular industry from analog cellular technology to 2g 3g and 4g as well as the emergence of wlan and wpan as broadband ad hoc networks characteristics of radio propagation includes new coverage of channel modeling for space time mimo and uwb communications and wireless geolocation networks modem design offers new descriptions of space time coding mimo antenna systems uwb communications and multi user detection and interference cancellation techniques used in cdma networks network access and system aspects incorporates new chapters on uwb systems and rf geolocations with a thorough revision of wireless access techniques and wireless systems and standards exercises that focus on real world problems are provided at the end of each chapter the mix of assignments which includes computer projects and questionnaires in addition to traditional problem

sets helps readers focus on key issues and develop the skills they need to solve actual engineering problems extensive references are provided for those readers who would like to explore particular topics in greater depth with its emphasis on knowledge building to solve problems this is an excellent graduate level textbook like the previous edition this latest edition will also be a standard reference for the telecommunications industry

focusing on the physical layer networking fundamentals provides essential information on networking technologies that are used in both wired and wireless networks designed for local area networks lans and wide area networks wans the book starts with an overview of telecommunications followed by four parts each including several chapters part i explains the principles of design and analysis of information networks at the lowest layers it concentrates on the characteristics of the transmission media applied transmission and coding and medium access control parts ii and iii are devoted to detailed descriptions of important wans and lans respectively with part ii describing the wired ethernet and internet as well as cellular networks while part iii covers popular wired lans and wireless lans wlans as well as wireless personal area network wpan technologies part iv concludes by examining security localization and sensor networking the partitioned structure of the book allows flexibility in teaching the material encouraging the reader to grasp the more simple concepts and to build on these foundations when moving onto more complex information networking fundamentals contains numerous illustrations case studies and tables to supplement the text as well as exercises with solutions at the end of each chapter there is also a companion website with password protected solutions manual for instructors along with other useful resources provides a unique holistic approach covering wireless communication technologies wired technologies and networking one of the first textbooks to integrate all aspects of information networks while placing an emphasis on the physical layer and systems engineering aspects contains numerous illustrations case studies and tables to supplement the text as well as exercises with solutions at the end of each chapter companion website with password protected solutions manual and other useful resources

today s wireless communications and networking practices are tightly coupled with economic considerations to the extent that it is almost impossible to make a sound technology choice without understanding the corresponding economic implications this book aims at providing a foundational introduction on how microeconomics and pricing theory in particular can help us to understand and build better wireless networks the book can be used as lecture notes for a course in the field of network economics or a reference book for wireless engineers and applied economists to understand how pricing mechanisms influence the fast growing modern wireless industry this book first covers the basics of wireless communication technologies and microeconomics before going in depth about several pricing models and their wireless applications the pricing models include social optimal pricing monopoly pricing price differentiation oligopoly pricing and network externalities supported by introductory discussions of convex optimization and game theory the wireless applications include wireless video streaming service provider competitions cellular usage based pricing network partial price differentiation wireless spectrum leasing distributed power control and cellular technology upgrade more information related to the book including references slides and videos can be found at ncl.ie.cuhk.edu.hk/content/wireless-network-pricing

this book provides a comprehensive overview of the most relevant research and standardization results in the area of wireless networking for industrial iot covering both critical and massive

connectivity most chapters in this book are intended to serve as short tutorials of particular topics highlighting the main developments and ideas as well as giving an outlook of the upcoming research challenges the book is divided into four parts the first part focuses on challenges enablers and standardization efforts for reliable low latency communication in industrial iot networks the next part focuses on massive iot which requires cost and energy efficient technology components to efficiently connect a massive number of low cost iot devices the third part covers three enabling technologies in the context of industrial iot security machine learning artificial intelligence and edge computing these enablers are applicable to both connectivity types critical and massive iot the last part covers aspects of industrial iot related to connected transportation that are important in for example warehouse and port logistics product delivery and transportation among industries presents a comprehensive guide to concepts and research challenges in wireless networking for industrial iot includes an introduction and overview of such topics as 3gpp standardization for industrial iot time sensitive networking system dependability over wireless networks energy efficient wireless networks iot security ml ai for industrial iot and connected transportation systems features contributions by well recognized experts from both academia and industry

a complete roadmap to wireless mesh network design principles and practices using wifi wimax and zigbee wireless mesh networking provides everything needed to create in demand wireless mesh networks that provide wireless broadband access over wide areas this resource presents a complete roadmap to the design and operation of wireless mesh networks covering basic principles key standards and all aspects of network operation from antenna technologies to software to energy management this skills building tool is packed with 100 detailed illustrations wireless mesh networking features expert guidance on integrating wifi wimax and zigbee into seamless wireless networks the latest methods for ensuring security across the wireless network in depth coverage of data fusion principles vital information on smartmesh networking in sensornets autonomic selfware and bio inspired communication artifacts inside this one stop guide to wireless mesh networks wireless mesh communications paradigms wireless mesh network theory and models wireless mesh architectures and protocols wireless mesh network standards wifi wimax zigbee use of advanced antenna technologies mechanisms for secure communications software and middleware wireless sensor networking foundations of data fusion gathering and processing energy management autonomic selfware communications selfware networking

the third edition of this popular reference covers enabling technologies for building up 5g wireless networks due to extensive research and complexity of the incoming solutions for the next generation of wireless networks it is anticipated that the industry will select a subset of these results and leave some advanced technologies to be implemented later this new edition presents a carefully chosen combination of the candidate network architectures and the required tools for their analysis due to the complexity of the technology the discussion on 5g will be extensive and it will be difficult to reach consensus on the new global standard the discussion will have to include the vendors operators regulators as well as the research and academic community in the field having a comprehensive book will help many participants to join actively the discussion and make meaningful contribution to shaping the new standard

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Introduction

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