The Book Of Wireless A Painless Guide To Wi Fi And Broadband Wireless | 14d39649dafbdd75a5c3bf9995220513

802.11 Wireless NetworksWireless Networking and Mobile Data ManagementThe Book of Wireless, 2nd Edition802.11 Wireless Networks: The Definitive GuideHacking Wireless NetworksThe Mobile WaveBuilding Secure Wireless Networks with 802.11Wireless and Mobile NetworksWireless Mesh NetworksWireless Networks and Mobile ComputingWireless Networking Absolute Beginner's GuideWireless ConnectivityHistory of WirelessAdvanced Wireless CommunicationsWireless Communications & NetworkingWireless Communications SecurityWireless Communications SystemsWireless Mesh NetworkingThe Book of WirelessWireless RadioDesigning A Wireless NetworkWirelessWireless Networks For DummiesDevelopments in Wireless Network Prototyping, Design, and Deployment: Future GenerationsWireless CommunicationsHackproofing Your Wireless NetworkBuilding Wireless Community NetworksWireless Broadband Networks HandbookWireless Network SecurityA Brief History of Everything WirelessThe Future of Wireless NetworksAdvanced Wireless NetworksMobile and Wireless NetworksWireless Network Security A Beginner's GuideWarDriving and Wireless Penetration TestingAbsolute Beginner's Guide to Wi-Fi Wireless NetworkingWireless Communication Standards802.11 Wireless NetworksWireless CommunicationsFundamentals of Wireless Communication

802.11 Wireless Networks

You've probably heard the expression, "It's timeto cut the cord." Well, it may be time to "cut thecables" at your office and free yourself from your desk andcomputer. Wireless networks are the waves of thefuture—literally. Wireless Networks For Dummies guidesyou from design through implementation to ongoing protection ofyour system and your information so you can: Remain connected to the office in airports and hotels Access the Internet and other network resources in thelunchroom, conference room, or anywhere there's an accesspoint Use your PDA or laptop to query your database from thewarehouse or the boardroom Check e-mail wirelessly when you're on the road Get rid of the cable clutter in your office Wireless Networks For Dummies was coauthored by Barry D.Lewis, CISSP, and Peter T. Davis, who also coauthored ComputerSecurity For Dummies. Barry Lewis is president of aninformation security consulting firm and an internationally knownleader of security seminars. Peter Davis is founder of a firmspecializing in the security, audit, and control of information.Together, they cut through the cables, clutter, and confusion andhelp you: Get off to a quick start and get mobile with IrDA

(InfraredData Association) and Bluetooth Perform a site survey and select the right standard, mode,access point, channel and antenna Check online to verify degree of interoperability of devicesfrom various vendors Install clients and set up roaming Combat security threats such as war driving, jamming,hijacking, and man-in-the-middle attacks Implement security and controls such as MAC (Media AccessControl) and protocol filtering, WEP (Wireless Equivalent Privacy),WPA, (Wi-Fi Protected Access), EAP (Extensible AuthenticationProtocol), and VPN (Virtual Private Network) Set up multiple access points to form a larger wirelessnetwork Complete with suggestions of places to get connected, Web siteswhere you can get more information, tools you can use to monitorand improve security, and more, Wireless Networks ForDummies helps you pull the plug and go wireless!

Wireless Networking and Mobile Data Management

Going beyond classic networking principles and architectures for better wireless performance Written by authors with vast experience in academia and industry, Wireless Mesh Networks provides its readers with a thorough overview and in-depth understanding of the state-of-the-art in wireless mesh networking. It offers guidance on how to develop new ideas to advance this technology, and how to support emerging applications and services. The contents of the book follow the TCP/IP protocol stack, starting from the physical layer. Functionalities and existing protocols and algorithms for each protocol layer are covered in depth. The book is written in an accessible textbook style, and contains supporting materials such as problems and exercises to assist learning. Key Features: Presents an in-depth explanation of recent advances and open research issues in wireless mesh networking, and offers concrete and comprehensive material to guide deployment and product development Describes system architectures and applications of wireless mesh networks (WMNs), and discusses the critical factors influencing protocol design Explores theoretical network capacity and the state-of-the-art protocols related to WMNs Surveys standards that have been specified and standard drafts that are being specified for WMNs, in particular the latest standardization results in IEEE 802.11s, 802.15.5, 802.16 mesh mode, and 802.16 relay mode Includes an accompanying website with PPT-slides, further reading, tutorial material, exercises, and solutions Advanced students on networking, computer science, and electrical engineering courses will find Wireless Mesh Networks an essential read. It will also be of interest to wireless networking academics, researchers, and engineers at universities and in industry.

The Book of Wireless, 2nd Edition

This unique and practical text introduces the principles of WLANs 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.

802.11 Wireless Networks: The Definitive Guide

Wireless communications have become indispensable part of our lives. The book deals with the security of such wireless communication. The technological background of these applications have been presented in detail. Special emphasis has been laid on the IEEE 802.11x-standards that have been developed for this technology. A major part of the book is devoted to security risks, encryption and authentication. Checklists have been provided to help IT administrators and security officers to achieve the maximum possible security in their installations, when using wireless technology. This is the second edition of the book. The updates include the latest the IEEE 802.11-standard, an updated chapter on PDA, the increased relevance of smart phones and tablets, widespread use of WLAN with increased security risks.

Hacking Wireless Networks

Since the discovery of electromagnetic waves less than 150 years ago, the application of wireless communications technology has not only revolutionized our daily lives, but also fundamentally changed the course of world history. A Brief History of Everything Wireless charts the fascinating story of wireless communications. The book leads the reader on an intriguing journey of personal triumphs and stinging defeats, relating the prominent events, individuals and companies involved in each progressive leap in technology, with a particular focus on the phenomenal impact of each new invention on society. Beginning at the early days of spark-gap transmitters, this tale touches on the emergence of radio and television broadcasting, as well as radio navigation and radar, before moving on to the rise of satellite, near-field and light-based communications. Finally, the development of wireless home networks and the explosive growth of modern cellular technologies are revealed, complete with a captivating account of their corresponding company histories and behind-the-scenes battles over standards. For those wishing to peek behind the magic curtain of friendly user interfaces and clever engineering, and delve further into various processes underlying the ubiquitous technology we depend upon yet take for granted, the book also contains special "TechTalk" chapters that explain the theoretical basics in an intuitive way.

The Mobile Wave

"This book highlights the current design issues in wireless networks, informing scholars and practitioners about advanced prototyping innovations in this field"--

Building Secure Wireless Networks with 802.11

In 1873 Scottish physicist James Clerk Maxwell first advanced the idea that there might be electromagnetic waves that were similar to light waves, a startling concept to the scientists of his day. About 13 years later, German physicist Heinrich Hertz demonstrated in his laboratory that electromagnetic radiation did indeed exist. But it was not until after Hertz's death that a young Italian named Guglielmo Marconi got the idea for a practical communications system based on Hertz's work. Marconi was surprised and disappointed that the Italian government was not interested in his newly discovered wireless communications system, and thus he took his equipment to England. From that point on, the wireless became identified with Britain. From these beginnings, wireless radio became the basis of a revolution that has resulted in the satellite communications of today. This history first looks at Marconi's invention and then explores its many applications, including marine radio, cellular telephones, police and military uses, television and radar. Radio collecting is also discussed, and brief biographies are provided for the major figures in the development and use of the wireless.

Wireless and Mobile Networks

A new look at the early history of wireless communication.

Wireless Mesh Networks

Are you tired of buying security books and at the end discover that they contain only theory and no practical examples at all? Do you want to setup your own hacking lab and learn through practice? If yes, then this is the book for you! Hacking Wireless Networks - The ultimate hands-on guide, is a book written for people who seek to practice the techniques of assessing the security of wireless infrastructures.Through 30 real life scenarios and more than 300 figures the book examines in details the following areas: - Discovery and Profiling of wireless networks - Denial of Service attacks - Attacks against WEP secured wireless networks - Attacks against WPA/WPA2 secured wireless networks - Bypass techniques for popular Authentication mechanisms - Encryption keys cracking using special techniques - Attacks against the Access Point's management interface - Attacks against special security features like WPS - Stealthy techniques to avoid getting caught by wireless IDS Now that the world agrees that wireless security is central to computer security, it is time to put theory into practice.

Wireless Networks and Mobile Computing

Wireless Networking Absolute Beginner's Guide

A comprehensive introduction to the fundamentals of design and applications of wireless communications Wireless Communications Systems starts by explaining the fundamentals needed to understand, design, and deploy wireless communications systems. The author, a noted expert on the topic, explores the basic concepts of signals, modulation, antennas, and propagation with a MATLAB emphasis. The book emphasizes practical applications and concepts needed by wireless engineers. The author introduces applications of wireless communications and includes information on satellite communications, radio frequency identification, and offers an overview with practical insights into the topic of multiple input multiple output (MIMO). The book also explains the security and health effects of wireless systems concerns on users and designers. Designed as a practical resource, the text contains a range of examples and pictures that illustrate many different aspects of wireless technology. The book relies on MATLAB for most of the computations and graphics. This important text: Reviews the basic information needed to understand and design wireless communications systems Covers topics such as MIMO systems, adaptive antennas, direction finding, wireless security, internet of things (IoT), radio frequency identification (RFID), and software defined radio (SDR) Provides examples with a MATLAB emphasis to aid comprehension Includes an online solutions manual and video lectures on selected topics Written for students of engineering and physics and practicing engineers and scientists, Wireless Communications Systems covers the fundamentals of wireless engineering in a clear and concise manner and contains many illustrative examples.

Wireless Connectivity

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.

History of Wireless

Designed to help networking professionals take advantage of the innovative features of broadband wireless networks, this helpful volume provides a detailed tutorial--complete with hands-on examples, installation tips, and configuration and troubleshooting techniques--that demostrates how to design, implement, and effectively utilize the latest in wireless technology. Original. (Intermediate)

Advanced Wireless Communications

Wireless Communications Standards: A Study of IEEE 802.11, 802.15, and

802.16 is one of the latest books in the IEEE Standards Wireless Networks Series, and it is the only book of its kind that covers all of the current 802 wireless standards! Presented in a clear style, by Dr. Todor Cooklev of San Francisco State University, the book is accessible to a wide audience. It is aimed at engineers, computer scientists, managers, and marketing specialists. It can also be used as the primary textbook for a one-semester advanced undergraduate/graduate level course on wireless communication standards, or as a complementary textbook for a course in wireless communications.

Wireless Communications & Networking

"Professor Andreas F. Molisch, renowned researcher and educator, has put together the comprehensive book, Wireless Communications. The second edition, which includes a wealth of new material on important topics, ensures the role of the text as the key resource for every student, researcher, and practitioner in the field." —Professor Moe Win, MIT, USA Wireless communications has grown rapidly over the past decade from a niche market into one of the most important, fast moving industries. Fully updated to incorporate the latest research and developments, Wireless Communications, Second Edition provides an authoritative overview of the principles and applications of mobile communication technology. The author provides an in-depth analysis of current treatment of the area, addressing both the traditional elements, such as Rayleigh fading, BER in flat fading channels, and equalisation, and more recently emerging topics such as multi-user detection in CDMA systems, MIMO systems, and cognitive radio. The dominant wireless standards; including cellular, cordless and wireless LANs; are discussed. Topics featured include: wireless propagation channels, transceivers and signal processing, multiple access and advanced transceiver schemes, and standardised wireless systems. Combines mathematical descriptions with intuitive explanations of the physical facts, enabling readers to acquire a deep understanding of the subject. Includes new chapters on cognitive radio, cooperative communications and relaying, video coding, 3GPP Long Term Evolution, and WiMax; plus significant new sections on multi-user MIMO, 802.11n, and information theory. Companion website featuring: supplementary material on 'DECT', solutions manual and presentation slides for instructors, appendices, list of abbreviations and other useful resources.

Wireless Communications Security

This book examines two main topics, namely, Wireless Networking and Mobile Data Management. It is designed around a course the author began teaching to senior undergraduate and master's students at the Department of Computer Science & Engineering of the Indian Institute of Technology Kanpur. The first part of the book, consisting of eight chapters, including the introduction, focuses

exclusively on wireless networking aspects. It begins with cellular communication systems, which provided the foundation of wireless networking principles. Three subsequent chapters are devoted to the Global System for Mobile communication (GSM), Wireless Local Area Network (WLAN), Bluetooth, infrared (IR), ZigBee and 6LoWPAN protocols. There is also a chapter on routings in ad hoc networks, an area that is currently being intensively researched due to its potential applications in areas of vehicular network, traffic management, tactical and military systems. Furthermore, the book discusses mobile operating systems and wireless network application level protocols such as Wireless Application Protocols (WAP), Mobile IP and Mosh. The second part highlights mobile data management. It addresses the issues like location management, the importance of replication and caching in mobile environments, the concept of broadcast disk and indexing in air, storage systems for sharing data in mobile environments, and building smart environments. Given that the design of algorithms is the key to applications in data management; this part begins with a chapter on the type of paradigm shift that has been introduced in the design of algorithms, especially due to asymmetry in mobile environments. Lastly, the closing chapter of the book explores smart environments, showing the readers how wireless technology and mobile data management can be combined to provide optimum comfort for human life. Though the book has been structured as a monograph, it can be used both as a textbook and as a reference material for researchers and developers working in the area.

Wireless Communications Systems

The only way to stop a hacker is to think like one! Wireless technology is a new and rapidly growing field of concentration for network engineers and administrators. Innovative technology is now making the communication between computers a cordless affair. Wireless devices and networks are vulnerable to additional security risks because of their presence in the mobile environment. Hack Proofing Your Wireless Network is the only book written specifically for architects, engineers, and administrators responsible for securing their wireless networks. From making sense of the various acronyms (WAP, WEP, SSL, PKE, PKI, SSL, SSH, IPSEC) to the implementation of security policies, plans, and recovery protocols, this book will help users secure their wireless network before its security is compromised. The only way to stop a hacker is to think like onethis book details the multiple ways a hacker can attack a wireless network - and then provides users with the knowledge they need to prevent said attacks. Uses forensic-based analysis to give the reader an insight into the mind of a hacker With the growth of wireless networks architects, engineers and administrators will need this book Up to the minute Web based support at www.solutions@syngress.com

Wireless Mesh Networking

This textbook takes a unified view of the fundamentals of wireless communication and explains cutting-edge concepts in a simple and intuitive way. An abundant supply of exercises make it ideal for graduate courses in electrical and computer engineering and it will also be of great interest to practising engineers.

The Book of Wireless

This book provides comprehensive coverage of mobile data networking and mobile communications under a single cover for diverse audiences including managers, practicing engineers, and students who need to understand this industry. In the last two decades, many books have been written on the subject of wireless communications and networking. However, mobile data networking and mobile communications were not fully addressed in a unified fashion. This book fills that gap in the literature and is written to provide essentials of wireless communications and wireless networking, including Wireless Personal Area Networks (WPAN), Wireless Local Area Networks (WLAN), and Wireless Wide Area Networks (WWAN). The first ten chapters of the book focus on the fundamentals that are required to study mobile data networking and mobile communications. Numerous solved examples have been included to show applications of theoretical concepts. In addition, unsolved problems are given at the end of each chapter for practice. (A solutions manual will be available.) After introducing fundamental concepts, the book focuses on mobile networking aspects. Four chapters are devoted on the discussion of WPAN, WLAN, WWAN, and internetworking between WLAN and WWAN. Remaining seven chapters deal with other aspects of mobile communications such as mobility management, security, cellular network planning, and 4G systems. A unique feature of this book that is missing in most of the available books on wireless communications and networking is a balance between the theoretical and practical concepts. Moreover, this book can be used to teach a one/two semester course in mobile data networking and mobile communications to ECE and CS students. *Details the essentials of Wireless Personal Area Networks(WPAN), Wireless Local Are Networks (WLAN), and Wireless Wide Area Networks (WWAN) *Comprehensive and up-to-date coverage including the latest in standards and 4G technology *Suitable for classroom use in senior/first year grad level courses. Solutions manual and other instructor support available

Wireless Radio

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

Designing A Wireless Network

A cellular network or mobile network is a wireless network distributed over land areas called cells, each served by at least one fixed-location transceiver, known as a cell site or base station. In a cellular network, each cell uses a different set of frequencies from neighboring cells, to avoid interference and provide guaranteed bandwidth within each cell. When joined together these cells provide radio coverage over a wide geographic area. This enables a large number of portable transceivers (e.g., mobile phones, pagers, etc.) to communicate with each other and with fixed transceivers and telephones anywhere in the network, via base stations, even if some of the transceivers are moving through more than one cell during transmission. Cellular networks offer a number of desirable features: More capacity than a single large transmitter, since the same frequency can be used for multiple links as long as they are in different cells Mobile devices use less power than with a single transmitter or satellite since the cell towers are closer Larger coverage area than a single terrestrial transmitter, since additional cell towers can be added indefinitely and are not limited by the horizon Major telecommunications providers have deployed voice and data cellular networks over most of the inhabited land area of the Earth. This allows mobile phones and mobile computing devices to be connected to the public switched telephone network and public Internet. Private cellular networks can be used for research or for large organizations and fleets, such as dispatch for local public safety agencies or a taxicab company.

Wireless

Building Wireless Community Networks is about getting people online using wireless network technology. The 802.11b standard (also known as WiFi) makes

it possible to network towns, schools, neighborhoods, small business, and almost any kind of organization. All that's required is a willingness to cooperate and share resources. The first edition of this book helped thousands of people engage in community networking activities. At the time, it was impossible to predict how quickly and thoroughly WiFi would penetrate the marketplace. Today, with WiFi-enabled computers almost as common as Ethernet, it makes even more sense to take the next step and network your community using nothing but freely available radio spectrum. This book has showed many people how to make their network available, even from the park bench, how to extend high-speed Internet access into the many areas not served by DSL and cable providers, and how to build working communities and a shared though intangible network. All that's required to create an access point for high-speed Internet connection is a gateway or base station. Once that is set up, any computer with a wireless card can log onto the network and share its resources. Rob Flickenger built such a network in northern California, and continues to participate in network-building efforts. His nuts-and-bolts guide covers: Selecting the appropriate equipment Finding antenna sites, and building and installing antennas Protecting your network from inappropriate access New network monitoring tools and techniques (new) Regulations affecting wireless deployment (new) IP network administration, including DNS and IP Tunneling (new) His expertise, as well as his sense of humor and enthusiasm for the topic, makes Building Wireless Community Networks a very useful and readable book for anyone interested in wireless connectivity.

Wireless Networks For Dummies

The exponential increase in mobile device users and high-bandwidth applications has pushed the current 3G and 4G wireless networks to their capacity. Moreover, it is predicted that mobile data traffic will continue to grow by over 300 percent by 2017. To handle this spectacular growth, the development of improved wireless networks for the future ha

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

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 netwoking * 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

Wireless Communications

Wireless technology is a truly revolutionary paradigm shift, enabling multimedia communications between people and devices from any location. It also underpins exciting applications such as sensor networks, smart homes, telemedicine, and automated highways. This book provides a comprehensive introduction to the underlying theory, design techniques and analytical tools of wireless communications, focusing primarily on the core principles of wireless system design. The book begins with an overview of wireless systems and standards. The characteristics of the wireless channel are then described, including their fundamental capacity limits. Various modulation, coding, and signal processing schemes are then discussed in detail, including state-of-the-art adaptive modulation, multicarrier, spread spectrum, and multiple antenna techniques. The concluding chapters deal with multiuser communications, cellular system design, and ad-hoc network design. Design insights and tradeoffs are emphasized throughout the book. It contains many worked examples, over 200 figures, almost 300 homework exercises, over 700 references, and is an ideal textbook for students.

Hackproofing Your Wireless Network

This book describes the current and most probable future wireless security solutions. The focus is on the technical discussion of existing systems and new trends like Internet of Things (IoT). It also discusses existing and potential security threats, presents methods for protecting systems, operators and end-users, describes security systems attack types and the new dangers in the ever-evolving Internet. The book functions as a practical guide describing the evolvement of the wireless environment, and how to ensure the fluent continuum of the new functionalities, whilst minimizing the potential risks in network security.

Building Wireless Community Networks

A promising new technology, wireless mesh networks are playing an increasingly important role in the future generations of wireless mobile networks. Characterized by dynamic self-organization, self-configuration, and self-healing to enable quick deployment, easy maintenance, low cost, high scalability, and reliable services, this technology is becoming a vital mode complementary to the infrastructure-based wireless networks. Wireless Mesh Networking: Architectures, Protocols and Standards is the first book to provide engineers, students, faculties, researchers, and designers with a comprehensive technical guide covering introductory concepts. It addresses advanced and open issues in wireless mesh networks and explores various key challenges and diverse scenarios as well as emerging standards such as those for capacity, scalability, extensibility, reliability, and cognition. It focuses on concepts, effective protocols, system integration, performance analysis techniques, simulation, experiments, and future research directions. This volume contains illustrative figures and allows for complete cross-referencing on routing, security, spectrum management, MAC, cross-layer optimization, load-balancing, multimedia communication, MIMO, and smart antenna, etc. It also details information on the particular techniques for efficiently improving the performance of a wireless mesh network. Presenting a solid introduction, Wireless Mesh Networking: Architectures, Protocols and Standards elucidates problems and challenges in designing wireless mesh networks.

Wireless Broadband Networks Handbook

Wireless communication is one of the fastest growing industry segments today. Many types of wireless networks are now being used for applications such as personal communication, entertainment, rural and urban healthcare, smart home building, inventory control, and surveillance. This book introduces the basic concepts of wireless networks and mobile computing to give engineering students at the undergraduate/graduate level a solid background in the field. It also looks at the latest research and challenging problems in the field to serve as a reference for advanced-level researchers. Wireless Networks and Mobile Computing begins with an introduction to the different types of wireless networks, including Wi-Fi, ZigBee, cellular mobile, ad hoc, cognitive radio, wireless mesh, and wireless sensor. Subsequent chapters address more advanced topics such as: Mobility, bandwidth, and node location management issues in mobile networks Message communication techniques and protocols in ad hoc networks Recent research and future direction of wireless local area networks (WLANs) Deployment of sensor nodes in wireless sensor networks (WSNs) Energy-efficient communication in wireless networks Security aspects of wireless communication The book includes exercises at the end of every chapter to help give students a better insight into the topics presented. It includes a number of advanced-level exercises, which are research problems that may be taken up by researchers in the respective areas. This book provides

a valuable reference for classroom study/teaching as well as for technology development and research in the relevant areas.

Wireless Network Security

Provides information on wireless networking, covering such topics as 802.11 standards, hotspots, and setting up a wireless network.

A Brief History of Everything Wireless

Mobile and wireless technologies are the fastest growing segment of teh communications industry. Covering both hardware and software perspectives, this book explains wireless networks in a simple and clear fashion.

The Future of Wireless Networks

Practical, hands-on instruction for securing wireless networks Wireless Network Security: A Beginner's Guideis an implementation guide to the basics of wireless technologies: how to design and use today's technologies to add wireless capabilities into an existing LAN and ensure secure communications between users, wireless devices, and sensitive data while keeping budgets and security in the forefront. Featuring real-world scenarios and instruction from a veteran network administrator, this book shows you how to develop, implement, and maintain secure wireless networks. There are many established protocols and standards for communications and security—expert author Brock Pearson shows how to deploy them correctly for best security practices. Wireless Network Security: A Beginner's Guidefeatures: Chapter Objectives:List of topics covered in the chapter Prevention Techniques:Proactive process improvement measures for avoiding attacks and preventing vulnerabilities from emerging Hands-On Practice:Short, "try-it-yourself" exercises in which the reader is led through a series of steps to create a simple program or event Ask the Security Guru:Q&A sections filled with bonus information and helpful tips Checklists:A summary in checklist format at the end of each chapter that lists the important tasks discussed in the chapter On Budget:Highlighted sections help optimize and leverage existing security processes and technologies to align with budget needs. Real-world scenarios of implementations of wireless technologies into corporate environments Details on wireless technologies, including 802.11b, 802.11g, Bluetooth, long-range wireless, and WiFi Easy-to-follow coverage: Introduction to Wireless Networking; Existing Wireless Networking Protocols; Existing Wireless Security Algorithms; Building a Budget and Strategy for Wireless Capabilities; Wireless Strategies for Existing Environments; Wireless Strategies for New Environment; Tracking and Maintaining Budgets; Implementing Wireless Access into Existing Environments; Implementing Wireless Access into New Environments; Detecting Intrusions on Wireless

Networks; Ensuring Secure Wireless/Wired Connections; Updating Wireless Access Point Configurations

Advanced Wireless Networks

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.

Mobile and Wireless Networks

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.

Wireless Network Security A Beginner's Guide

Important new insights into how various components and systemsevolved Premised on the idea that one cannot know a science withoutknowing its history, History of Wireless offers a lively newtreatment that introduces previously unacknowledged pioneers anddevelopments, setting a new standard for understanding theevolution of this important technology. Starting with the background-magnetism, electricity, light, andMaxwell's Electromagnetic Theory-this book offers new insights intothe initial theory and experimental exploration of wireless. Inaddition to the well-known contributions of Maxwell, Hertz, andMarconi, it examines work done by Heaviside, Tesla, and passionateamateurs such as the Kentucky melon farmer Nathan Stubblefield andthe unsung hero Antonio Meucci. Looking at the story frommathematical, physics, technical, and other perspectives, theclearly written text describes the development of wireless within avivid scientific milieu. History of Wireless also goes into other key areas,including: The work of J. C. Bose and J. A. Fleming German, Japanese, and Soviet contributions to physics andapplications of electromagnetic oscillations and waves Wireless telegraphic and telephonic development and attempts toachieve transatlantic wireless communications Wireless telegraphy in South Africa in the early twentiethcentury Antenna development in Japan: past and present Soviet quasi-optics at near-mm and sub-

mm wavelengths The evolution of electromagnetic waveguides The history of phased array antennas Augmenting the typical, Marconi-centered approach, History ofWireless fills in the conventionally accepted story withattention to more specific, less-known discoveries and individuals,and challenges traditional assumptions about the origins and growthof wireless. This allows for a more comprehensive understanding ofhow various components and systems evolved. Written in a clear tonewith a broad scientific audience in mind, this exciting andthorough treatment is sure to become a classic in the field.

[WarDriving and Wireless Penetration Testing](#)

Fully revised and updated version of the successful "Advanced Wireless Communications" Wireless communications continue to attract the attention of both research community and industry. Since the first edition was published significant research and industry activities have brought the fourth generation (4G) of wireless communications systems closer to implementation and standardization. "Advanced Wireless Communications" continues to provide a comparative study of enabling technologies for 4G. This second edition has been revised and updated and now includes additional information on the components of common air interface, including the area of space time coding , multicarrier modulation especially OFDM, MIMO, cognitive radio and cooperative transmission. Ideal for students and engineers in research and development in the field of wireless communications, the second edition of Advanced Wireless Communications also gives an understanding to current approaches for engineers in telecomm operators, government and regulatory institutions. New features include: Brand new chapter covering linear precoding in MIMO channels based on convex optimization theory. Material based on game theory modelling encompassing problems of adjacent cell interference, flexible spectra sharing and cooperation between the nodes in ad hoc networks. Presents and discusses the latest schemes for interference suppression in ultra wide band (UWB) cognitive systems. Discusses the cooperative transmission and more details on positioning.

[Absolute Beginner's Guide to Wi-Fi Wireless Networking](#)

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. Category: Networking Covers: Wireless Networking User Level: Beginning

Wireless Communication Standards

Provides information on analyzing wireless networks through wardriving and penetration testing.

802.11 Wireless Networks

Smart phones are just the beginning . . . A tech exec's New York Times bestselling, groundbreaking analysis of the impact of mobile intelligence. With the perspective of a historian, the precision of a technologist, and the pragmatism of a CEO, Michael J. Saylor of MicroStrategy provides a panoramic view of the future mobile world. He describes how: A Harvard education will be available to anyone with the touch of a screen. Cash will become virtual software and crime proof. Cars, homes, fruit, animals, and more will be tagged so they can tell you about themselves. Buying an item will be as easy as pointing our mobile device to scan and pay. Land and capital will become more of a liability than an asset. Social mobile media will push all businesses to think and act like software companies. Employment will shift as more service-oriented jobs are automated by mobile software. Products, businesses, industries,

economies, and even society will be altered forever as the Mobile wave washes over us and changes the landscape. With so much change, The Mobile Wave is a guidebook for individuals, business leaders, and public figures who must navigate the new terrain as mobile intelligence changes everything. "The visionary picture he paints of the future is captivating, informative, and thought-provoking . . . Readers will be able understand and appreciate his clear and engaging exploration of a complex, red-hot, and thoroughly up-to-the minute topic."—USA Today "A thoughtful romp across invention and innovation."—Fortune "A blueprint for impending change and a sober warning for the laggards who resist it."—Forbes.com

Wireless Communications

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.

Fundamentals of Wireless Communication

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