Network Security Kaufman Perlman Speciner

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Handbook of Communications Security - F. Garzia 2013
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.
WebDav - Lisa Dusseault 2004
WebDAV: Next-Generation Collaborative Web Authoring is the complete guide to Web-based Distributed Authoring and Versioning (WebDAV), the IETF standard for Web authoring and wide area collaboration. Experienced implementer Lisa Dusseault covers WebDAV from bits on the wire up to custom application implementation, demonstrating with extensive examples and traces from real clients and servers. Coverage includes: practical rules for building WebDAV document management systems; step-by-step, Internet Explorer compatible sample applications; and the latest WebDAV tools. For application designers, software engineers, and information managers.
Network Security - Charlie Kaufman 2022-08-31
The classic guide to cryptography and network security — now fully updated! “Alice and Bob are back!” Widely regarded as the most comprehensive yet comprehensible guide to network security and cryptography, the previous editions of Network Security received critical acclaim for lucid and witty explanations of the inner workings of cryptography and network security protocols. In this edition, the authors have significantly updated and revised the previous content, and added new topics that have become important. This book explains sophisticated concepts in a friendly and intuitive manner. For protocol standards, it explains the various constraints and committee decisions that led to the current designs. For cryptographic

algorithms, it explains the intuition behind the designs, as well as the types of attacks the algorithms are designed to avoid. It explains implementation techniques that can cause vulnerabilities even if the cryptography itself is sound. Homework problems deepen your understanding of concepts and technologies, and an updated glossary demystifies the field's jargon. Network Security, Third Edition will appeal to a wide range of professionals, from those who design and evaluate security systems to system administrators and programmers who want a better understanding of this important field. It can also be used as a textbook at the graduate or advanced undergraduate level. Coverage includes Network security protocol and cryptography basics Design considerations and techniques for secret key and hash algorithms (AES, DES, SHA-1, SHA-2, SHA-3) First-generation public key algorithms (RSA, Diffie-Hellman, ECC) How quantum computers work, and why they threaten the first-generation public key algorithms Quantum-safe public key algorithms: how they are constructed, and optimizations to make them practical !--[if gte mso 9] Normal 0 false false false EN-US X-NONE X-NONE MicrosoftInternetExplorer4 ![endif]--!--[if gte mso 9] ![endif]-- !--[if gte mso 10]![endif]--Multi-factor authentication of people Real-time communication (SSL/TLS, SSH, IPsec) New applications (electronic money, blockchains) New cryptographic techniques (homomorphic encryption, secure multiparty computation)

Critical Incident Management - Alan B. Sterneckert 2003-09-29

Most businesses are aware of the danger posed by malicious network intruders and other internal and external security threats. Unfortunately, in many cases the actions they have taken to secure people, information and infrastructure from outside attacks are inefficient or incomplete. Responding to security threats and incidents requires a competent

Malware - Ed Skoudis 2004

bull; Real-world tools needed to prevent, detect, and handle malicious code attacks. bull; Computer infection from viruses, worms, Trojan Horses etc., collectively known as malware is a growing cost problem for businesses. bull; Discover how attackers install malware and how you can peer through their schemes to keep systems safe. bull; Bonus malware code analysis laboratory.

Computer Security - ESORICS 96 - Elisa Bertino 1996-09-16

This book constitutes the refereed proceedings of the 4th European Symposium on Research in Computer Security, ESORICS '96, held in Rome, Italy, in September 1996 in conjunction with the 1996 Italian National Computer Conference, AICA '96. The 21 revised full papers presented in the book were carefully selected from 58 submissions. They are organized in sections on electronic commerce, advanced access control models for database systems, distributed systems, security issues for mobile computing, network security, theoretical foundations of security, and secure database architectures.

Interconnections - Radia Perlman 2000

Perlman, a bestselling author and senior consulting engineer for Sun Microsystems, provides insight for building more robust, reliable, secure and manageable networks. Coverage also includes routing and addressing strategies, VLANs, multicasting, IPv6, and more.

Network Security - Mike Speciner 2002-04-22

The classic guide to network security—now fully updated!"Bob and

Alice are back!" Widely regarded as the most comprehensive yet comprehensible guide to network security, the first edition of Network Security received critical acclaim for its lucid and witty explanations of the inner workings of network security protocols. In the second edition, this most distinguished of author teams draws on hard-won experience to explain the latest developments in this field that has become so critical to our global network-dependent society. Network Security, Second Edition brings together clear, insightful, and clever explanations of every key facet of information security, from the basics to advanced cryptography and authentication, secure Web and email services, and emerging security standards. Coverage includes: All-new discussions of the Advanced Encryption Standard (AES), IPsec, SSL, and Web security Cryptography: In-depth, exceptionally clear introductions to secret and public keys, hashes, message digests, and other crucial concepts Authentication: Proving identity across networks, common attacks against authentication systems, authenticating people, and avoiding the pitfalls of authentication handshakes Core Internet security standards: Kerberos 4/5, IPsec, SSL, PKIX, and X.509 Email security: Key elements of a secure email system-plus detailed coverage of PEM, S/MIME, and PGP Web security: Security issues associated with URLs, HTTP, HTML, and cookies Security implementations in diverse platforms, including Windows, NetWare, and Lotus Notes The authors go far beyond documenting standards and technology: They contrast competing schemes, explain strengths and weaknesses, and identify the crucial errors most likely to compromise secure systems. Network Security will appeal to a wide range of professionals, from those who design or evaluate security systems to system administrators and programmers who want a better understanding of this important field. It can also be used as a textbook at the graduate or advanced undergraduate level.

Firewalls and Internet Security - William R. Cheswick 2003

Introduces the authors' philosophy of Internet security, explores possible attacks on hosts and networks, discusses firewalls and virtual private networks, and analyzes the state of communication security.

Network Security and Cryptography - Sarhan M. Musa 2022-07-28

This new edition introduces the basic concepts in computer networks, blockchain, and the latest trends and technologies in cryptography and network security. The book is a definitive guide to the principles and techniques of cryptography and network security, and introduces basic concepts in computer networks such as classical cipher schemes, public key cryptography, authentication schemes, pretty good privacy, and Internet security. It features a new chapter on artificial intelligence security and the latest material on emerging technologies, related to IoT, cloud computing, SCADA, blockchain, smart grid, big data analytics, and more. Primarily intended as a textbook for courses in computer science, electronics & communication, the book also serves as a basic reference and refresher for professionals in these areas. FEATURES: Includes a new chapter on artificial intelligence security, the latest material on emerging technologies related to IoT, cloud computing, smart grid, big data analytics, blockchain, and more Features separate chapters on the mathematics related to network security and cryptography Introduces

basic concepts in computer networks including classical cipher schemes, public key cryptography, authentication schemes, pretty good privacy, Internet security services, and system security Includes end of chapter review questions

Information Security and IT Risk Management - Manish Agrawal 2014-04-21

This new text provides students the knowledge and skills they will need to compete for and succeed in the information security roles they will encounter straight out of college. This is accomplished by providing a hands-on immersion in essential system administration, service and application installation and configuration, security tool use, TIG implementation and reporting. It is designed for an introductory course on IS Security offered usually as an elective in IS departments in 2 and 4 year schools. It is not designed for security certification courses.

Topics in Cryptology - CT-RSA 2001 - David Naccache 2003-06-29

You are holding the rst in a hopefully long and successful series of RSA Cr- tographers' Track proceedings. The Cryptographers' Track (CT-RSA) is one of the many parallel tracks of the yearly RSA Conference. Other sessions deal with government projects, law and policy issues, freedom and privacy news, analysts' opinions, standards, ASPs, biotech and healthcare, nance, telecom and wireless security, developers, new products, implementers, threats, RSA products, VPNs, as well as cryp- graphy and enterprise tutorials. RSA Conference 2001 is expected to continue the tradition and remain the largest computer security event ever staged: 250 vendors, 10,000 visitors and 3,000 class-going attendees are expected in San Francisco next year. I am very grateful to the 22 members of the program committee for their hard work. The program committee received 65 submissions (one of which was later withdrawn) for which review was conducted electronically; almost all papers had at least two reviews although most had three or more. Eventually, we accepted the 33 papers that appear in these proceedings. Revisions were not checked on their scienti c aspects and some authors will write nal versions of their papers for publication in refereed journals. As is usual, authors bear full scienti c and paternity responsibilities for the contents of their papers.

The Deviant Security Practices of Cyber Crime - Erik H.A. van de Sandt 2021-08-09

This is the first book to present a full, socio-technical-legal picture on the security practices of cyber criminals, based on confidential police sources related to some of the world's most serious and organized criminals.

Cryptography and Network Security - R. Achary 2021-07-15

This book is an introduction to fundamental concepts in the fields of cryptography and network security. Because cryptography is highly vulnerable to program errors, a simple testing of the cryptosystem will usually uncover a security vulnerability. In this book the author takes the reader through all of the important design and implementation details of various cryptographic algorithms and network security protocols to enforce network security. The book is divided into four parts: Cryptography, Security Systems, Network Security Applications, and System Security. Numerous diagrams and examples throughout the book are used to explain cryptography and network security concepts. FEATURES: Covers key concepts related to cryptography

and network security Includes chapters on modern symmetric key block cipher algorithms, information security, message integrity, authentication, digital signature, key management, intruder detection, network layer security, data link layer security, NSM, firewall design, and more.

Information Security and Cryptology - ICISC 2000 - Dongho Won 2003-06-29
I would like to welcome all the participants to the 3rd International Conference on Information Security and Cryptology (ICISC 2000). It is sponsored by the Korea Institute of Information Security and Cryptology (KIISC) and is being held at Dongguk University in Seoul, Korea from December 8 to 9, 2000. This conference aims at providing a forum for the presentation of new results in research, development, and application in information security and cryptology. This is also intended to be a place where research information can be exchanged. The Call for Papers brought 56 papers from 15 countries and 20 papers will be presented in ve sessions. As was the case last year the review process was totally blind and the anonymity of each submission was maintained. The 22 TPC members nally selected 20 top-quality papers for presentation at ICISC 2000. I am very grateful to the TPC members who devoted much e ort and time to reading and selecting the papers. We also thank the experts who assisted the TPC in evaluating various papers and apologize for not including their names here. Moreover, I would like to thank all the authors who submitted papers to ICISC 2000 and the authors of accepted papers for their preparation of came- ready manuscripts. Last but not least, I thank my student, Joonsuk Yu, who helped me during the whole process of preparation for the conference. I look forward to your participation and hope you will nd ICISC 2000 a truly rewarding experience.

Network Security: Private Communication in a Public World, Second Edition - Charlie Kaufman 2002

Mobile Agents and Security - Giovanni Vigna 1998-06-29
A atudy of mobile agents and security. The mobile agents paradigm integrates a network of computers and reduces networking to program construction. A mobile agent can travel from one place to another, and, subject to the destination's approval, interact programmatically with the place it visits.

Optimizing Network Performance with Content Switching - Matthew Syme 2004
A guide to the applications of content aware networking such as server load balancing, firewall load balancing, Web caching and Web cache redirection. This is growing to a $1 billion market. The authors are specialists from Nortel.

The Handbook of Ad Hoc Wireless Networks - Mohammad Ilyas 2002-12-26
A relative newcomer to the field of wireless communications, ad hoc networking is growing quickly, both in its importance and its applications. With rapid advances in hardware, software, and protocols, ad hoc networks are now coming of age, and the time has come to bring together into one reference their principles, technologies, and techniques. The Handbook of Ad Hoc Wireless Networks does exactly that. Experts from around the world have joined forces to create the definitive reference for the field. From the basic concepts, techniques, systems, and protocols of wireless communication to the particulars of ad hoc network routing methods, power, connections, traffic management, and security, this handbook covers virtually every aspect of ad hoc wireless networking.

It includes a section that explores several routing methods and protocols directly related to implementing ad hoc networks in a variety of applications. The benefits of ad hoc wireless networks are many, but several challenges remain. Organized for easy reference, The Handbook of Ad Hoc Wireless Networks is your opportunity to gain quick familiarity with the state of the art, have at your disposal the only complete reference on the subject available, and prepare to meet the technological and implementation challenges you'll encounter in practice.

Computational Science and Its Applications - ICCSA 2003 - ICCSA. 2003-05-08

The three-volume set, LNCS 2667, LNCS 2668, and LNCS 2669, constitutes the refereed proceedings of the International Conference on Computational Science and Its Applications, ICCSA 2003, held in Montreal, Canada, in May 2003. The three volumes present more than 300 papers and span the whole range of computational science from foundational issues in computer science and mathematics to advanced applications in virtually all sciences making use of computational techniques. The proceedings give a unique account of recent results in computational science.

Solutions Manual to Accompany Network Security - Charlie Kaufman 2003

Constructing an Ethical Hacking Knowledge Base for Threat Awareness and Prevention - Dhavale, Sunita Vikrant 2018-12-14

In recent decades there has been incredible growth in the use of various internet applications by individuals and organizations who store sensitive information online on different servers. This greater reliance of organizations and individuals on internet technologies and applications increases the threat space and poses several challenges for implementing and maintaining cybersecurity practices. Constructing an Ethical Hacking Knowledge Base for Threat Awareness and Prevention provides innovative insights into how an ethical hacking knowledge base can be used for testing and improving the network and system security posture of an organization. It is critical for each individual and institute to learn hacking tools and techniques that are used by dangerous hackers in tandem with forming a team of ethical hacking professionals to test their systems effectively. Highlighting topics including cyber operations, server security, and network statistics, this publication is designed for technical experts, students, academicians, government officials, and industry professionals.

The Practice of Network Security - Allan Liska 2003

InThe Practice of Network Security, former UUNet networkarchitect Allan Liska shows how to secure enterprise networks in thereal world - where you're constantly under attack and you don't alwaysget the support you need. Liska addresses every facet of networksecurity, including defining security models, access control,Web/DNS/email security, remote access and VPNs, wireless LAN/WANsecurity, monitoring, logging, attack response, and more. Includes adetailed case study on redesigning an insecure enterprise network formaximum security.

Network Security - Christos Douligeris 2007-02-09

A unique overview of network security issues, solutions, and methodologies at an architectural and research level Network Security provides the latest research and addresses likely future developments in network security protocols, architectures,

policy, and implementations. It covers a wide range of topics dealing with network security, including secure routing, designing firewalls, mobile agent security, Bluetooth security, wireless sensor networks, securing digital content, and much more. Leading authorities in the field provide reliable information on the current state of security protocols, architectures, implementations, and policies. Contributors analyze research activities, proposals, trends, and state-of-the-art aspects of security and provide expert insights into the future of the industry. Complete with strategies for implementing security mechanisms and techniques, Network Security features: * State-of-the-art technologies not covered in other books, such as Denial of Service (DoS) and Distributed Denial-of-Service (DDoS) attacks and countermeasures * Problems and solutions for a wide range of network technologies, from fixed point to mobile * Methodologies for real-time and non-real-time applications and protocols

Solutions Manual to Accompany Network Security - Charles Kaufman 1998

Cryptography and Network Security - V.K. Jain 2013

This book has been written keeping in mind syllabi of all Indian universities and optimized the contents of the book accordingly. These students are the book's primary audience. Cryptographic concepts are explained using diagrams to illustrate component relationships and data flows. At every step aim is to examine the relationship between the security measures and the vulnerabilities they address. This will guide readers in safely applying cryptographic techniques. This book is also intended for people who know very little about cryptography but need to make technical decisions about cryptographic security. many people face this situation when they need to transmit business data safely over the Internet. This often includes people responsible for the data, like business analysts and managers. as well as those who must install and maintain the protections, like information systems administrators and managers. This book requires no prior knowledge of cryptography or related mathematics. Descriptions of low-level crypto mechanisms focus on presenting the concepts instead of the details. This book is intended as a reference book for professional cryptographers, presenting the techniques and algorithms of greatest interest of the current practitioner, along with the supporting motivation and background material. It also provides a comprehensive source from which to learn cryptography, serving both students and instructors. In addition, the rigorous treatment, breadth, and extensive bibliographic material should make it an important reference for research professionals. While composing this book my intention was not to introduce a collection of new techniques and protocols, but rather to selectively present techniques from those currently available in the public domain.

Computer Security - John S. Potts 2002

We live in a wired society, with computers containing and passing around vital information on both personal and public matters. Keeping this data safe is of paramount concern to all. Yet, not a day seems able to pass without some new threat to our computers. Unfortunately, the march of technology has given us the benefits of computers and electronic tools, while also opening us to unforeseen dangers. Identity theft,

electronic spying, and the like are now standard worries. In the effort to defend both personal privacy and crucial databases, computer security has become a key industry. A vast array of companies devoted to defending computers from hackers and viruses have cropped up. Research and academic institutions devote a considerable amount of time and effort to the study of information systems and computer security. Anyone with access to a computer needs to be aware of the developing trends and growth of computer security. To that end, this book presents a comprehensive and carefully selected bibliography of the literature most relevant to understanding computer security. Following the bibliography section, continued access is provided via author, title, and subject indexes. With such a format, this book serves as an important guide and reference tool in the defence of our computerised culture.

Network Security - Scott C.-H. Huang 2010-07-16

This book provides a reference tool for the increasing number of scientists whose research is more or less involved in network security. Coverage includes network design and modeling, network management, data management, security and applications.

Engineering Information Security - Stuart Jacobs 2011-10-31

Information security is the act of protecting information from unauthorized access, use, disclosure, disruption, modification, or destruction. This book discusses why information security is needed and how security problems can have widespread impacts. It covers the complete security lifecycle of products and services, starting with requirements and policy development and progressing through development, deployment, and operations, and concluding with decommissioning. Professionals in the sciences, engineering, and communications fields will turn to this resource to understand the many legal, technical, competitive, criminal and consumer forces and influences that are rapidly changing our information dependent society. If you’re a professor and would like a copy of the solutions manual, please contact ieeepress@ieee.org. The material previously found on the CD can now be found on www.booksupport.wiley.com.

Essential WAP for Web Professionals - Damon Hougland 2001

Covers the WAP basics and supporting technologies, then gets you up and running with WAP code. Features practical code examples in 4 different Web-based programming languages - ASP, JSP, Perl, & Java servlets.

Data Warehousing and Data Mining Techniques for Cyber Security - Anoop Singhal 2007-04-06

The application of data warehousing and data mining techniques to computer security is an important emerging area, as information processing and internet accessibility costs decline and more and more organizations become vulnerable to cyber attacks. These security breaches include attacks on single computers, computer networks, wireless networks, databases, or authentication compromises. This book describes data warehousing and data mining techniques that can be used to detect attacks. It is designed to be a useful handbook for practitioners and researchers in industry, and is also suitable as a text for advanced-level students in computer science.

Biometrics for Network Security - Paul Reid 2004

Reid (senior product manager, Cryptometrics) introduces the technical capabilities and limitations of computer biometric

systems for measuring fingerprints, eye characteristics, or other body information as a computer security measure serving a similar purpose to personal identification numbers. He describes the workings of the different types of technologies and examines some of the mathematics behind biometric systems. He also describes the conceptualization and implementation of a particular system with which he was involved. Annotation : 2004 Book News, Inc., Portland, OR (booknews.com).

Electronic Signatures in International Contracts - Carolina M. Laborde 2010

Originally presented as the author's thesis (doctoral)--Freiburg (Breisgau), Universiteat, 2008.

Practical Intranet Security - Paul M. Ashley 2012-12-06

Foreword by Lars Knudsen Practical Intranet Security focuses on the various ways in which an intranet can be violated and gives a thorough review of the technologies that can be used by an organization to secure its intranet. This includes, for example, the new security architecture SESAME, which builds on the Kerberos authentication system, adding to it both public-key technology and a role-based access control service. Other technologies are also included such as a description of how to program with the GSS-API, and modern security technologies such as PGP, S/MIME, SSH, SSL IPSEC and CDSA. The book concludes with a comparison of the technologies. This book is different from other network security books in that its aim is to identify how to secure an organization's intranet. Previously books have concentrated on the Internet, often neglecting issues relating to securing intranets. However the potential risk to business and the ease by which intranets can be violated is often far greater than via the Internet. The aim is that network administrators and managers can get the information that they require to make informed choices on strategy and solutions for securing their own intranets. The book is an invaluable reference for network managers and network administrators whose responsibility it is to ensure the security of an organization's intranet. The book also contains background reading on networking, network security and cryptography which makes it an excellent research reference and undergraduate/postgraduate text book.

Network Security - Charlie Kaufman 2022-09-26

With ever more of our commercial and personal lives occurring electronically, network security is vital. When networks don't have secure foundations, malware steals from us, invades our privacy, and threatens our safety. This guide uncovers the technology behind network security: its strengths, weaknesses, past, and future. It answers fundamental questions like: How do you identify yourself and prevent others from impersonating you? How do you communicate with others? How do you maintain your privacy? How do you buy and sell things? As a tutorial, it explains sophisticated concepts in a friendly and intuitive manner. As a reference, it covers concepts and techniques rigorously and in depth. The authors cover a wide spectrum of topics essential for securing web-based transactions, including public and secret key cryptography, hashes/message digests, signatures, authentication, blockchains, electronic money, secret sharing, and multiparty computation. They also address exciting emerging issues such as quantum computing, post-quantum algorithms, homomorphic encryption,

and secure multiparty computation. Wherever math beyond high school algebra is needed, Network Security, 3rd Edition covers what students and other readers need to know, making it a self-contained solution suitable for undergraduate students, graduate students, and working engineers alike. To support learning and mastery, it also includes extensive homework problems, fully updated to reflect current concepts and technologies.

Wireless Network Security - Yang Xiao 2007-12-29

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.

Deploying Cisco Wide Area Application Services - Zach Seils CCIE No. 7861 2010-01-12

Implement advanced WAN optimization, application acceleration, and branch virtualization with Cisco WAAS 4.1 This book brings together all the information you need to design and deploy scalable, transparent application acceleration, WAN optimization, and branch virtualization solutions with dramatically improved Wide Area Application Services (WAAS) 4.1 products from Cisco®. Cisco WAAS insiders Joel Christner, Zach Seils, and Nancy Jin systematically cover new WAAS software enhancements that enable far better performance, simplified workflow, and improved manageability. They introduce powerful new solution components including application-specific acceleration techniques, hardware form factors, and virtualization. They also thoroughly explain recent architectural improvements that provide a solid foundation for future WAAS solutions. The authors begin by reviewing the underlying technologies that comprise today’s Cisco WAAS solution. Next, drawing on extensive personal experience, they walk through collecting requirements, designing effective solutions, integrating WAAS into existing networks, and configuring WAAS 4.1 software. This book is replete with real-world implementation examples and case studies– including extensive coverage of network, branch office, and data center integration. One step at a time, you’ll learn how to deploy Cisco WAAS in a scalable, transparent, and seamless fashion: one that addresses both your business and technical challenges. Thoroughly understand WAAS 4.1’s capabilities, and learn how to use and manage it effectively Understand both the Cisco WAAS appliance and router-integrated network module hardware family Quickly deploy WAAS in lab or production pilot environments to quantify its potential benefits Size, design, and deploy Cisco WAAS for maximum performance and value in your enterprise network Compare and select design options for branch office and data center network integration Deploy the WAAS Central Manager and accelerator WAAS devices Implement centralized authentication, authorization, alarm management, monitoring, and reporting Configure WAN optimization with the Application Traffic Policy Manager Configure, verify, and manage application acceleration Leverage WAAS 4.1’s powerful new branch office

virtualization capabilities Quickly troubleshoot WAAS problems using Cisco's own best practices This book is part of the Networking Technology Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.

Computer Security and the Internet - Paul C. van Oorschot 2020-04-04

This book provides a concise yet comprehensive overview of computer and Internet security, suitable for a one-term introductory course for junior/senior undergrad or first-year graduate students. It is also suitable for self-study by anyone seeking a solid footing in security — including software developers and computing professionals, technical managers and government staff. An overriding focus is on brevity, without sacrificing breadth of core topics or technical detail within them. The aim is to enable a broad understanding in roughly 350 pages. Further prioritization is supported by designating as optional selected content within this. Fundamental academic concepts are reinforced by specifics and examples, and related to applied problems and real-world incidents. The first chapter provides a gentle overview and 20 design principles for security. The ten chapters that follow provide a framework for understanding computer and Internet security. They regularly refer back to the principles, with supporting examples. These principles are the conceptual counterparts of security-related error patterns that have been recurring in software and system designs for over 50 years. The book is "elementary" in that it assumes no background in security, but unlike "soft" high-level texts it does not avoid low-level details, instead it selectively dives into fine points for exemplary topics to concretely illustrate concepts and principles. The book is rigorous in the sense of being technically sound, but avoids both mathematical proofs and lengthy source-code examples that typically make books inaccessible to general audiences. Knowledge of elementary operating system and networking concepts is helpful, but review sections summarize the essential background. For graduate students, inline exercises and supplemental references provided in per-chapter endnotes provide a bridge to further topics and a springboard to the research literature; for those in industry and government, pointers are provided to helpful surveys and relevant standards, e.g., documents from the Internet Engineering Task Force (IETF), and the U.S. National Institute of Standards and Technology.

A Field Guide to Wireless LANs - Thomas Maufer 2004

Finally--an 802.11 deployment guide for business and home use that demystifies the alphabet soup of IEEE standards and explains the features and benefits of each with regards to speeds and feeds.

Distributed Network Systems - Weijia Jia 2006-06-14

Both authors have taught the course of "Distributed Systems" for many years in the respective schools. During the teaching, we feel strongly that "Distributed systems" have evolved from traditional "LAN" based distributed systems towards "Internet based" systems. Although there exist many excellent textbooks on this topic, because of the fast development of distributed systems and network programming/protocols, we have difficulty in finding an appropriate textbook for the course of "distributed systems" with orientation to the requirement of the undergraduate level study for today's

distributed technology. Specifically, from - to-date concepts, algorithms, and models to implementations for both distributed system designs and application programming. Thus the philosophy behind this book is to integrate the concepts, algorithm designs and implementations of distributed systems based on network programming. After using several materials of other textbooks and research books, we found that many texts treat the distributed systems with separation of concepts, algorithm design and network programming and it is very difficult for students to map the concepts of distributed systems to the algorithm design, prototyping and implementations. This book intends to enable readers, especially postgraduates and senior undergraduate level, to study up-to-date concepts, algorithms and network programming skills for building modern distributed systems. It enables students not only to master the concepts of distributed network system but also to readily use the material introduced into implementation practices.