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Recent Advances in Computer Science and Information Engineering Springer
Created through a student-tested, faculty-approved review process with input from more than 250 students and faculty, GOVT is an engaging and accessible solution to accommodate the diverse learning styles of today's learners at a value-based price. Focusing on the current and historical conflicts and controversies that define America as a nation, GOVT is a streamlined and extremely current text for the American Government course. Its motivating debate theme and appealing modern format speak directly to today's student. A full suite of learning tools--correlated to the text chapter-by-chapter--are available through CourseMate and include an eBook, Chapter In Review cards, videos, simulations, podcasts, and quizzes that allow students to learn and study wherever they are and whenever they have time.

Wireless & Mobile N/W Security Springer Science & Business Media
In multimedia and communication environments all documents must be protected against attacks. The movie Forrest Gump showed how multimedia documents can be manipulated. The required security can be achieved by a number of different security measures. This book provides an overview of the current research in Multimedia and Communication Security. A broad variety of subjects are addressed including: network security; attacks; cryptographic techniques; healthcare and telemedicine; security infrastructures; payment systems; access control; models and policies; auditing and firewalls. This volume contains the selected proceedings of the joint conference on Communications and Multimedia Security; organized by the International Federation for Information processing and supported by the Austrian Computer Society, Gesellschaft fuer Informatik e.V. and TeleTrust Deutschland e.V. The conference took place in Essen, Germany, in September 1996

Wireless Communication Springer Science & Business Media
Exploit and defend against the latest wireless network attacks Learn to exploit weaknesses in wireless network environments using the innovative techniques in this thoroughly updated guide. Inside, you ' ll find concise technical overviews, the latest attack methods, and ready-to-deploy countermeasures. Find out how to leverage wireless eavesdropping, break encryption systems, deliver remote exploits, and manipulate 802.11 clients, and learn how attackers impersonate cellular networks. Hacking Exposed Wireless, Third Edition features expert coverage of ever-expanding threats that affect leading-edge technologies, including Bluetooth Low Energy, Software Defined Radio (SDR), ZigBee, and Z-Wave. Assemble a wireless attack toolkit and master the hacker ' s weapons Effectively scan and enumerate WiFi networks and client devices Leverage advanced wireless attack tools, including Wifite, Scapy, Pyrit, Metasploit, KillerBee, and the Aircrack-ng suite Develop and launch client-side attacks using Ettercap and the WiFi Pineapple Hack cellular networks with Airprobe, Kraken, Pytacle, and YateBTS Exploit holes in WPA and WPA2 personal and enterprise security schemes Leverage rogue hotspots to deliver remote access software through fraudulent software updates Eavesdrop on Bluetooth Classic and Bluetooth Low Energy traffic Capture and evaluate proprietary wireless technology with Software Defined Radio tools Explore vulnerabilities in ZigBee and Z-Wave-connected smart homes and offices Attack remote wireless networks using compromised Windows systems and built-in tools

Systems, Architectures, and Protocols Elsevier
With the rapid evolution of multimedia communications, engineers and other professionals are generally forced to hoard a plethora of different texts and journals to maintain a solid grasp on essential ideas and techniques in the field. Wireless Multimedia Communications provides researchers and students with a primary reference to help readers take maximum advantage of current systems and uncover opportunities to propose new and novel protocols, applications, and services. Extract the Essentials of System Design, Analysis, Implementation A complete technical reference, the text condenses the essential topics of core wireless multimedia communication technologies, convergence, QoS, and security that apply to everything from networking to communications systems, signal processing, and security. From extensive existing literature, the authors distill the central tenets and primary methods of analysis, design, and implementation, to reflect the latest technologies and architectural concepts. The book addresses emerging challenges to inform the system standardization process and help engineers combat the high error rates and stringent delay constraints that remain a significant challenge to various applications and services. Keep Pace with Detailed Techniques to Optimize Technology The authors identify causes of information loss in point-to-point signal transmission through wireless channels, and then they discuss techniques to minimize that loss. They use examples that illustrate the differences in implementing various systems, ranging from cellular voice telephony to wireless Internet access. Each chapter has been carefully organized with the latest information to serve dual purposes as an easy-to-reference guide for professionals and as a principal text for senior-level university students.

Security Management of Next Generation Telecommunications Networks and Services John Wiley & Sons
Now updated—your expert guide to twenty-first century information security Information security is a rapidly evolving field. As businesses and consumers become increasingly dependent on complex multinational information systems, it is more imperative than ever to protect the confidentiality and integrity of data. Featuring a wide array of new information on the most current security issues, this fully updated and revised edition of Information Security: Principles and Practice provides the skills and knowledge readers need to tackle any information security challenge. Taking a practical approach to information security by focusing on real-world examples, this book is organized around four major themes: Cryptography: classic cryptosystems, symmetric key cryptography, public key cryptography, hash functions, random numbers, information hiding, and cryptanalysis Access control: authentication and authorization, password-based security, ACLs and capabilities, multilevel security and compartments, covert channels and inference control, security models such as BLP and Biba's model, firewalls, and intrusion detection systems Protocols: simple authentication protocols, session keys, perfect forward secrecy, timestamps, SSH, SSL, IPSec, Kerberos, WEP, and GSM Software: flaws and malware, buffer overflows, viruses and worms, malware detection, software reverse engineering, digital rights management, secure software development, and operating systems security This Second Edition features new discussions of relevant security topics such as the SSH and WEP protocols, practical RSA timing attacks, botnets, and security certification. New background material has been added, including a section on the Enigma cipher and coverage of the classic "orange book" view of security. Also featured are a greatly expanded and upgraded set of homework problems and many new figures, tables, and graphs to illustrate and clarify complex topics and problems. A comprehensive solutions manual is available to assist in course development. Minimizing theory while providing clear, accessible content, Information Security remains the premier text for students and instructors in information technology, computer science, and engineering, as well as for professionals working in these fields.

Introducing Quality of Service Considerations in the Life Cycle of Real-time Systems IET
2009 CHOICE AWARD OUTSTANDING ACADEMIC TITLE Information and communications security is a hot topic in private industry as well as in government agencies. This book provides a complete conceptual treatment of securing information and transporting it over a secure network in a manner that does not require a strong mathematical background. It stresses why information security is important, what is being done about it, how it applies to networks, and an overview of its key issues. It is written for anyone who needs to understand these important topics at a conceptual rather than a technical level.

Convergence, DSP, QoS, and Security Elsevier
Recent Advances in Computer Science and Information EngineeringVolume 2Springer Science & Business Media

Theory and Applications John Wiley & Sons
Engineering Information Security covers all aspects of information security using a systematic engineering approach and focuses on the viewpoint of how to control access to information. Includes a discussion about protecting storage of private keys, SCADA, Cloud, Sensor, and Ad Hoc networks Covers internal operations security processes of monitors, review exceptions, and plan remediation Over 15 new sections Instructor resources such as lecture slides, assignments, quizzes, and a set of questions organized as a final exam If you are an instructor and adopted this book for your course, please email ieeeproposals@wiley.com to get access to the additional instructor materials for this book.

Security for Mobility IOS Press
Finally--a single volume guide to really effective security for both voice and data wireless networks! More and more data and voice communications are going via wireless at some point between the sender and intended recipient. As a result, truly "bulletproof" wireless security is now more than a desirable feature--instead, it's a necessity to protect essential personal and business data from hackers and eavesdroppers. In this handy reference, Praphul Chandra gives you the conceptual and practical tools every RF, wireless, and network engineer needs for high-security wireless applications. Inside this book you'll find coverage of these essential topics: + Cryptographic protocols used in wireless networks. + Key-based protocols, including key exchange and authentication techniques + Various types of wireless network attacks, including reflection, session hijacks, and Fluhrer-Mantin-Shamir (FMS) attacks. + Encryption/decryption standards and methods. + Multi-layered security architectures. + Secure sockets layer (SSL) and transport layer security (TLS) protocols. + Cellular telephone network architectures and their vulnerabilities. + Modulation techniques, such as direct-sequence spread spectrum (DSSS) and orthogonal frequency division multiplexing (OFDM) And you'll also find coverage on such cutting-edge topics as security techniques for ad hoc networks and protecting Bluetooth networks. If you're serious about wireless security, then this title belongs on your reference bookshelf!

Wireless Internet and Mobile Computing John Wiley & Sons
Voice Over IP (VoIP) phone lines now represent over 50% of all new phone line installations. Every one of these new VoIP phone lines and handsets must now be protected from malicious hackers because these devices now reside on the network and are accessible from the Internet just like any server or workstation. This book will cover a wide variety of the publicly available exploit tools and how they can be used specifically against VoIP (Voice over IP) Telephony systems. The book will cover the attack methodologies that are used against the SIP and H.323 protocols as well as VoIP network infrastructure. Significant emphasis will be placed on both attack and defense techniques. This book is designed to be very hands on and scenario intensive · More VoIP phone lines are being installed every day than traditional PBX phone lines · VoIP is vulnerable to the same range of attacks of any network device · VoIP phones can receive as many Spam voice mails as your e-mail can receive Spam e-mails, and as result must have the same types of anti-spam capabilities

GSM, UMTS, 802.11, and Ad Hoc Security Laxmi Publications, Ltd.
This book summarizes various approaches for the automatic detection of health threats to older patients at home living alone. The text begins by briefly describing those who would most benefit from healthcare supervision. The book then summarizes possible scenarios for monitoring an older patient at home, deriving the common functional requirements for monitoring technology. Next, the work identifies the state of the art of technological monitoring approaches that are practically applicable to geriatric patients. A survey is presented on a range of such interdisciplinary fields as smart homes, telemonitoring, ambient intelligence, ambient assisted living, gerontechnology, and aging-in-place technology. The book discusses relevant experimental studies, highlighting the application of sensor fusion, signal processing and machine learning techniques. Finally, the text discusses future challenges, offering a number of suggestions for further research directions.

Wireless Communications Security Artech House on Demand
"This book combines research from esteemed experts on security issues in various wireless communications, recent advances in wireless security, the wireless security model, and future directions in wireless security. As an innovative reference source forstudents, educators, faculty members, researchers, engineers in the field of wireless security, it will make an invaluable addition to any library collection"--Provided by publisher.

Advances in Information Technologies IGI Global
Introduces aspects on security threats and their countermeasures in both fixed and wireless networks, advising on how countermeasures can provide secure communication infrastructures. Enables the reader to understand the risks of inappropriate network security, what mechanisms and protocols can be deployed to counter these risks, and how these mechanisms and protocols work.

The Application of Systems Engineering Concepts to Achieve Information Assurance McGraw Hill Education (India) Pvt Ltd
This book covers many aspects of security for mobility including current developments, underlying technologies, network security, mobile code issues, application security and the future.
John Wiley & Sons
As information resources migrate to the Cloud and to local and global networks, protecting sensitive data becomes ever more important. In the modern, globally-interconnected world, security and privacy are ubiquitous concerns. Next Generation Wireless Network Security and Privacy addresses real-world problems affecting the security of information communications in modern networks. With a focus on recent developments and solutions, as well as common weaknesses and threats, this book benefits academicians, advanced-level students, researchers, computer scientists, and software development specialists. This cutting-edge reference work features chapters on topics including UMTS security, procedural and architectural solutions, common security issues, and modern cryptographic algorithms, among others.
Security in Fixed and Wireless Networks Nova Publishers
Receive comprehensive instruction on the fundamentals of wireless security from three leading international voices in the field Security in Wireless Communication Networks delivers a thorough grounding in wireless communication security. The distinguished authors pay particular attention to wireless specific issues, like authentication protocols for various wireless communication networks, encryption algorithms and integrity schemes on radio channels, lessons learned from designing secure wireless systems and standardization for security in wireless systems. The book addresses how engineers, administrators, and others involved in the design and maintenance of wireless networks can achieve security while retaining the broadcast nature of the system, with all of its inherent harshness and interference. Readers will learn: A comprehensive introduction to the background of wireless communication network security, including a broad overview of wireless communication networks, security services, the mathematics crucial to the subject, and cryptographic techniques An exploration of wireless local area network security, including Bluetooth security, Wi-Fi security, and body area network security An examination of wide area wireless network security, including treatments of 2G, 3G, and 4G Discussions of future development in wireless security, including 5G, and vehicular ad-hoc network security Perfect for undergraduate and graduate students in programs related to wireless communication, Security in Wireless Communication Networks will also earn a place in the libraries of professors, researchers, scientists, engineers, industry managers, consultants, and members of government security agencies who seek to improve their understanding of wireless security protocols and practices.
Information Security John Wiley & Sons
Intruder Alarms provides a definitive and fully up-to-date guide to the specification, systems design, integration, installation and maintenance of intruder alarm systems. It has been written to be the essential handbook for installation engineers and security professionals working in this rapidly expanding and developing area. The third edition includes new material on systems integration, digital systems, wireless and remote signalling technologies, and electrical safety. The revision has brought coverage fully in line with the new European standards (EN50131 / BS EN 50131-1), with their implications summarised in a new appendix. The coverage has also been carefully matched to the requirements of the new Knowledge of Security and Emergency Alarm Systems from City & Guilds (1852). * An hugely popular practical guide for installation engineers and security professionals now in its third edition * Essential reading for managers responsible for the commissioning and maintenance of security alarm systems * Third edition is fully matched to the new European standards (EN50131 / BS EN 50131-1) * Coverage meets City & Guilds specifications for the new 1852 Security Alarm course
Wireless Technology CRC Press
"This book examines the current scope of theoretical and practical applications on the security of mobile and wireless communications, covering fundamental concepts of current issues, challenges, and solutions in wireless and mobile networks"--Provided by publisher.
Communications and Multimedia Security II IGI Global
Section A: Basic Of E-Commerce And Its Application 1. Introduction To E-Commerce 2. Business Models Of E-Commerce 3. B2B E-Commerce And Edi 4. Business Applications Of E-Commerce Section B: Technologies For E-Commerce 5. E-Commerce Technology 6. Electronic Payment Systems 7. Security Issues In E-Commerce 8. Role Of Social Media In E-Commerce Industry Section C: M-Commerce And Its Implementation 9. Mobile Commerce And Wap 10. Mobile Commerce Risk, Security And Payments Methods 11. Mobile Money-Infrastructure And Fraud Prevention For M-Payment Section D: Legal Issues 12. Legal And Ethical Issues 13. Cyber Laws 14. Webhosting Section E: Online Marketing And Website Designing 16. Search Engine Optimization (Seo) 17. Tools For Website Design Section F: Security Issues In E-Commerce 18. Few Security Guidelines For Developing E-Commerce Applications 19. E-Commerce Testing Process Section G: Current Trends In E-Commerce 20. Current Trends In Electronic World
Wireless Multimedia Communications Springer
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.