

Corporate Computer Security 3rd Edition

With 28 new chapters, the third edition of *The Practice of System and Network Administration* innovates yet again! Revised with thousands of updates and clarifications based on reader feedback, this new edition also incorporates DevOps strategies even for non-DevOps environments. Whether you use Linux, Unix, or Windows, this new edition describes the essential practices previously handed down only from mentor to protégé. This wonderfully lucid, often funny cornucopia of information introduces beginners to advanced frameworks valuable for their entire career, yet is structured to help even experts through difficult projects. Other books tell you what commands to type. This book teaches you the cross-platform strategies that are timeless!

DevOps techniques: Apply DevOps principles to enterprise IT infrastructure, even in environments without developers

Game-changing strategies: New ways to deliver results faster with less stress

Fleet management: A comprehensive guide to managing your fleet of desktops, laptops, servers and mobile devices

Service management: How to design, launch, upgrade and migrate services

Measurable improvement: Assess your operational effectiveness; a forty-page, pain-free assessment system you can start using today to raise the quality of all services

Design guides: Best practices for networks, data centers, email, storage, monitoring, backups and more

Management skills: Organization

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design, communication, negotiation, ethics, hiring and firing, and more Have you ever had any of these problems? Have you been surprised to discover your backup tapes are blank? Ever spent a year launching a new service only to be told the users hate it? Do you have more incoming support requests than you can handle? Do you spend more time fixing problems than building the next awesome thing? Have you suffered from a botched migration of thousands of users to a new service? Does your company rely on a computer that, if it died, can't be rebuilt? Is your network a fragile mess that breaks any time you try to improve it? Is there a periodic "hell month" that happens twice a year? Twelve times a year? Do you find out about problems when your users call you to complain? Does your corporate "Change Review Board" terrify you? Does each division of your company have their own broken way of doing things? Do you fear that automation will replace you, or break more than it fixes? Are you underpaid and overworked? No vague "management speak" or empty platitudes. This comprehensive guide provides real solutions that prevent these problems and more!

This book offers the first benchmarking study of China's response to the problems of security in cyber space. There are several useful descriptive books on cyber security policy in China published between 2010 and 2016. As a result, we know quite well the system for managing cyber security in China, and the history of policy responses. What we don't know so well, and where this book is useful, is how capable China has become in this domain relative to the rest of the world.

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This book is a health check, a report card, on China's cyber security system in the face of escalating threats from criminal gangs and hostile states. The book also offers an assessment of the effectiveness of China's efforts. It lays out the major gaps and shortcomings in China's cyber security policy. It is the first book to base itself around an assessment of China's cyber industrial complex, concluding that China does not yet have one. As Xi Jinping said in July 2016, the country's core technologies are dominated by foreigners.

In this authoritative book, widely respected practitioner and teacher Matt Bishop presents a clear and useful introduction to the art and science of information security. Bishop's insights and realistic examples will help any practitioner or student understand the crucial links between security theory and the day-to-day security challenges of IT environments. Bishop explains the fundamentals of security: the different types of widely used policies, the mechanisms that implement these policies, the principles underlying both policies and mechanisms, and how attackers can subvert these tools--as well as how to defend against attackers. A practicum demonstrates how to apply these ideas and mechanisms to a realistic company. Coverage includes Confidentiality, integrity, and availability Operational issues, cost-benefit and risk analyses, legal and human factors Planning and implementing effective access control Defining security, confidentiality, and integrity policies Using cryptography and public-key systems, and recognizing their limits Understanding and using authentication: from passwords to biometrics Security

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design principles: least-privilege, fail-safe defaults, open design, economy of mechanism, and more Controlling information flow through systems and networks Assuring security throughout the system lifecycle Malicious logic: Trojan horses, viruses, boot sector and executable infectors, rabbits, bacteria, logic bombs--and defenses against them Vulnerability analysis, penetration studies, auditing, and intrusion detection and prevention Applying security principles to networks, systems, users, and programs Introduction to Computer Security is adapted from Bishop's comprehensive and widely praised book, Computer Security: Art and Science. This shorter version of the original work omits much mathematical formalism, making it more accessible for professionals and students who have a less formal mathematical background, or for readers with a more practical than theoretical interest. This volume constitutes the proceedings of the Third European Symposium on Research in Computer Security, held in Brighton, UK in November 1994. The 26 papers presented in the book in revised versions were carefully selected from a total of 79 submissions; they cover many current aspects of computer security research and advanced applications. The papers are grouped in sections on high security assurance software, key management, authentication, digital payment, distributed systems, access control, databases, and measures.

Everything you need to know about modern network attacks and defense, in one book Clearly explains core network security concepts, challenges, technologies, and skills Thoroughly updated for the latest attacks and

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countermeasures The perfect beginner's guide for anyone interested in a network security career ζ Security is the IT industry's hottest topic—and that's where the hottest opportunities are, too. Organizations desperately need professionals who can help them safeguard against the most sophisticated attacks ever created—attacks from well-funded global criminal syndicates, and even governments. ζ Today, security begins with defending the organizational network. Network Defense and Countermeasures, Second Edition is today's most complete, easy-to-understand introduction to modern network attacks and their effective defense. From malware and DDoS attacks to firewalls and encryption, Chuck Easttom blends theoretical foundations with up-to-the-minute best-practice techniques. Starting with the absolute basics, he discusses crucial topics many security books overlook, including the emergence of network-based espionage and terrorism. ζ If you have a basic understanding of networks, that's all the background you'll need to succeed with this book: no math or advanced computer science is required. You'll find projects, questions, exercises, case studies, links to expert resources, and a complete glossary—all designed to deepen your understanding and prepare you to defend real-world networks. ζ Learn how to Understand essential network security concepts, challenges, and careers Learn how modern attacks work Discover how firewalls, intrusion detection systems (IDS), and virtual private networks (VPNs) combine to protect modern networks Select the right security technologies for any network environment Use encryption to protect

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information Harden Windows and Linux systems and keep them patched Securely configure web browsers to resist attacks Defend against malware Define practical, enforceable security policies Use the “6 Ps” to assess technical and human aspects of system security Detect and fix system vulnerability Apply proven security standards and models, including Orange Book, Common Criteria, and Bell-LaPadula Ensure physical security and prepare for disaster recovery Know your enemy: learn basic hacking, and see how to counter it Understand standard forensic techniques and prepare for investigations of digital crime ;

Computer Security: Principles and Practice, 2e, is ideal for courses in Computer/Network Security. In recent years, the need for education in computer security and related topics has grown dramatically – and is essential for anyone studying Computer Science or Computer Engineering. This is the only text available to provide integrated, comprehensive, up-to-date coverage of the broad range of topics in this subject. In addition to an extensive pedagogical program, the book provides unparalleled support for both research and modeling projects, giving students a broader perspective. The Text and Academic Authors Association named Computer Security: Principles and Practice, 1e, the winner of the Textbook Excellence Award for the best Computer Science textbook of 2008.

Before the Internet became widely known as a global tool for terrorists, one perceptive U.S. citizen recognized its ominous potential. Armed with clear evidence of computer espionage, he began a highly personal quest

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to expose a hidden network of spies that threatened national security. But would the authorities back him up? Cliff Stoll's dramatic firsthand account is "a computer-age detective story, instantly fascinating [and] astonishingly gripping" (Smithsonian). Cliff Stoll was an astronomer turned systems manager at Lawrence Berkeley Lab when a 75-cent accounting error alerted him to the presence of an unauthorized user on his system. The hacker's code name was "Hunter"—a mysterious invader who managed to break into U.S. computer systems and steal sensitive military and security information. Stoll began a one-man hunt of his own: spying on the spy. It was a dangerous game of deception, broken codes, satellites, and missile bases—a one-man sting operation that finally gained the attention of the CIA . . . and ultimately trapped an international spy ring fueled by cash, cocaine, and the KGB.

Security is too important to be left in the hands of just one department or employee-it's a concern of an entire enterprise. Enterprise Security Architecture shows that having a comprehensive plan requires more than the purchase of security software-it requires a framework for developing and maintaining a system that is proactive. The book is based

Now that there's software in everything, how can you make anything secure? Understand how to engineer dependable systems with this newly updated classic In Security Engineering: A Guide to Building Dependable Distributed Systems, Third Edition Cambridge University professor Ross Anderson updates his classic textbook and teaches readers how to design, implement, and test systems to withstand both error and attack. This book became a best-seller in 2001 and

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helped establish the discipline of security engineering. By the second edition in 2008, underground dark markets had let the bad guys specialize and scale up; attacks were increasingly on users rather than on technology. The book repeated its success by showing how security engineers can focus on usability. Now the third edition brings it up to date for 2020. As people now go online from phones more than laptops, most servers are in the cloud, online advertising drives the Internet and social networks have taken over much human interaction, many patterns of crime and abuse are the same, but the methods have evolved. Ross Anderson explores what security engineering means in 2020, including: How the basic elements of cryptography, protocols, and access control translate to the new world of phones, cloud services, social media and the Internet of Things Who the attackers are – from nation states and business competitors through criminal gangs to stalkers and playground bullies What they do – from phishing and carding through SIM swapping and software exploits to DDoS and fake news Security psychology, from privacy through ease-of-use to deception The economics of security and dependability – why companies build vulnerable systems and governments look the other way How dozens of industries went online – well or badly How to manage security and safety engineering in a world of agile development – from reliability engineering to DevSecOps The third edition of Security Engineering ends with a grand challenge: sustainable security. As we build ever more software and connectivity into safety-critical durable goods like cars and medical devices, how do we design systems we can maintain and defend for decades? Or will everything in the world need monthly software upgrades, and become unsafe once they stop?

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may

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come packaged with the bound book. For undergraduate and graduate networking and telecommunications courses that use hands-on labs. This text is also appropriate for anyone interested in understanding the installation and basic operation of software used in the field of networking. Gain hands-on experience working with networking tools Applied Networking Labs guides readers through the installation and basic operation of software used in the field of networking. Using this book in conjunction with a traditional Networking textbook will greatly reduce the time and effort required to prepare a course. It will also get students excited about the course and give them hands-on experience using various real-world networking tools. Teaching and Learning Experience This program presents a better teaching and learning experience—for you and your students. It will help: Make the connections: The Chapter Map aligns chapters in Applied Networking Labs to chapters from several popular networking textbooks so instructors and students can see which projects correlate to the content being presented in class. Gain real-world experience: Approximately 80 hands-on projects give students real-world experience using actual software that may not be presented in a traditional textbook. Get the picture: Project Screenshots will be unique due to who is taking it and when it is taken—any sharing or cheating will be obvious. Access further resources: The Website for this book contains useful resources, links, and files. Keep your course up-to-date: This edition is Microsoft Windows 7® Professional compliant, contains a Microsoft Windows Server 2012® chapter, expanded Linux coverage, and updated software versions for all projects.

Panko's name appears first on the earlier edition.

There are hundreds--if not thousands--of techniques used to compromise both Windows and Unix-based systems.

Malicious code and new exploit scripts are released on a daily

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basis, and each evolution becomes more and more sophisticated. Keeping up with the myriad of systems used by hackers in the wild is a formidable task, and scrambling to patch each potential vulnerability or address each new attack one-by-one is a bit like emptying the Atlantic with paper cup. If you're a network administrator, the pressure is on you to defend your systems from attack. But short of devoting your life to becoming a security expert, what can you do to ensure the safety of your mission critical systems? Where do you start? Using the steps laid out by professional security analysts and consultants to identify and assess risks, Network Security Assessment offers an efficient testing model that an administrator can adopt, refine, and reuse to create proactive defensive strategies to protect their systems from the threats that are out there, as well as those still being developed. This thorough and insightful guide covers offensive technologies by grouping and analyzing them at a higher level--from both an offensive and defensive standpoint--helping administrators design and deploy networks that are immune to offensive exploits, tools, and scripts. Network administrators who need to develop and implement a security assessment program will find everything they're looking for--a proven, expert-tested methodology on which to base their own comprehensive program--in this time-saving new book.

Now the most used textbook for introductory cryptography courses in both mathematics and computer science, the Third Edition builds upon previous editions by offering several new sections, topics, and exercises. The authors present the core principles of modern cryptography, with emphasis on formal definitions, rigorous proofs of security.

All the Knowledge You Need to Build Cybersecurity Programs and Policies That Work Clearly presents best practices, governance frameworks, and key standards Includes focused coverage of healthcare, finance, and PCI DSS compliance An

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essential and invaluable guide for leaders, managers, and technical professionals Today, cyberattacks can place entire organizations at risk. Cybersecurity can no longer be delegated to specialists: success requires everyone to work together, from leaders on down. Developing Cybersecurity Programs and Policies offers start-to-finish guidance for establishing effective cybersecurity in any organization. Drawing on more than 20 years of real-world experience, Omar Santos presents realistic best practices for defining policy and governance, ensuring compliance, and collaborating to harden the entire organization. First, Santos shows how to develop workable cybersecurity policies and an effective framework for governing them. Next, he addresses risk management, asset management, and data loss prevention, showing how to align functions from HR to physical security. You'll discover best practices for securing communications, operations, and access; acquiring, developing, and maintaining technology; and responding to incidents. Santos concludes with detailed coverage of compliance in finance and healthcare, the crucial Payment Card Industry Data Security Standard (PCI DSS) standard, and the NIST Cybersecurity Framework. Whatever your current responsibilities, this guide will help you plan, manage, and lead cybersecurity—and safeguard all the assets that matter. Learn How To · Establish cybersecurity policies and governance that serve your organization's needs · Integrate cybersecurity program components into a coherent framework for action · Assess, prioritize, and manage security risk throughout the organization · Manage assets and prevent data loss · Work with HR to address human factors in cybersecurity · Harden your facilities and physical environment · Design effective policies for securing communications, operations, and access · Strengthen security throughout the information systems lifecycle · Plan

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for quick, effective incident response and ensure business continuity · Comply with rigorous regulations in finance and healthcare · Plan for PCI compliance to safely process payments · Explore and apply the guidance provided by the NIST Cybersecurity Framework

Computer System and Network Security provides the reader with a basic understanding of the issues involved in the security of computer systems and networks. Introductory in nature, this important new book covers all aspects related to the growing field of computer security. Such complete coverage in a single text has previously been unavailable, and college professors and students, as well as professionals responsible for system security, will find this unique book a valuable source of information, either as a textbook or as a general reference. Computer System and Network Security discusses existing and potential threats to computer systems and networks and outlines the basic actions that are generally taken to protect them. The first two chapters of the text introduce the reader to the field of computer security, covering fundamental issues and objectives. The next several chapters describe security models, authentication issues, access control, intrusion detection, and damage control. Later chapters address network and database security and systems/networks connected to wide-area networks and internetworks. Other topics include firewalls, cryptography, malicious software, and security standards. The book includes case studies with information about incidents involving computer security, illustrating the problems and potential damage that can be caused when security fails. This unique reference/textbook covers all aspects of computer and network security, filling an obvious gap in the existing literature.

Discover the latest trends, developments and technology in information security today with Whitman/Mattord's market-

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leading PRINCIPLES OF INFORMATION SECURITY, 7th Edition. Designed specifically to meet the needs of those studying information systems, this edition's balanced focus addresses all aspects of information security, rather than simply offering a technical control perspective. This overview explores important terms and examines what is needed to manage an effective information security program. A new module details incident response and detection strategies. In addition, current, relevant updates highlight the latest practices in security operations as well as legislative issues, information management toolsets and digital forensics. Coverage of the most recent policies and guidelines that correspond to federal and international standards further prepare you for success both in information systems and as a business decision-maker. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Corporate Computer SecurityPrentice Hall

"This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher.

This fully revised and updated new edition of the definitive text/reference on computer network and information security presents a comprehensive guide to the repertoire of security tools, algorithms and best practices mandated by the technology we depend on. Topics and features: highlights the magnitude of the vulnerabilities, weaknesses and loopholes inherent in computer networks; discusses how to develop effective security solutions, protocols, and best practices for the modern computing environment; examines the role of legislation, regulation, and enforcement in securing computing and mobile systems; describes the burning security issues brought about by the advent of the Internet of

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Things and the eroding boundaries between enterprise and home networks (NEW); provides both quickly workable and more thought-provoking exercises at the end of each chapter, with one chapter devoted entirely to hands-on exercises; supplies additional support materials for instructors at an associated website.

When Practical Unix Security was first published more than a decade ago, it became an instant classic. Crammed with information about host security, it saved many a Unix system administrator from disaster. The second edition added much-needed Internet security coverage and doubled the size of the original volume. The third edition is a comprehensive update of this very popular book - a companion for the Unix/Linux system administrator who needs to secure his or her organization's system, networks, and web presence in an increasingly hostile world. Focusing on the four most popular Unix variants today--Solaris, Mac OS X, Linux, and FreeBSD--this book contains new information on PAM (Pluggable Authentication Modules), LDAP, SMB/Samba, anti-theft technologies, embedded systems, wireless and laptop issues, forensics, intrusion detection, chroot jails, telephone scanners and firewalls, virtual and cryptographic filesystems, WebNFS, kernel security levels, outsourcing, legal issues, new Internet protocols and cryptographic algorithms, and much more. Practical Unix & Internet Security consists of six parts: Computer security basics: introduction to security problems and solutions, Unix history and lineage, and the importance of security policies as a basic element of system security. Security building blocks: fundamentals of Unix passwords, users, groups, the Unix filesystem, cryptography, physical security, and personnel security. Network security: a detailed look at modem and dialup security, TCP/IP, securing individual network services, Sun's RPC, various host and network authentication systems (e.g., NIS, NIS+, and

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Kerberos), NFS and other filesystems, and the importance of secure programming. Secure operations: keeping up to date in today's changing security world, backups, defending against attacks, performing integrity management, and auditing. Handling security incidents: discovering a break-in, dealing with programmed threats and denial of service attacks, and legal aspects of computer security. Appendixes: a comprehensive security checklist and a detailed bibliography of paper and electronic references for further reading and research. Packed with 1000 pages of helpful text, scripts, checklists, tips, and warnings, this third edition remains the definitive reference for Unix administrators and anyone who cares about protecting their systems and data from today's threats.

Hands-On Ethical Hacking and Network Defense, Second Edition provides an in-depth understanding of how to effectively protect computer networks. This book describes the tools and penetration testing methodologies used by ethical hackers and provides a thorough discussion of what and who an ethical hacker is and how important they are in protecting corporate and government data from cyber attacks. Readers are provided with updated computer security resources that describe new vulnerabilities and innovative methods to protect networks. Also included is a thorough update of federal and state computer crime laws, as well as changes in penalties for illegal computer hacking. With cyber-terrorism and corporate espionage threatening the fiber of our world, the need for trained network security professionals continues to grow. Hands-On Ethical Hacking and Network Defense, Second Edition provides a structured knowledge base to prepare readers to be security professionals who understand how to protect a network by using the skills and tools of an ethical hacker. Important Notice: Media content referenced within the product description or the product text

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may not be available in the ebook version.

Part of the Jones & Bartlett Learning Information Systems Security and Assurance Series <http://www.issaseries.com>

Revised and updated to address the many changes in this evolving field, the Second Edition of Legal Issues in Information Security (Textbook with Lab Manual) addresses the area where law and information security concerns intersect. Information systems security and legal compliance are now required to protect critical governmental and corporate infrastructure, intellectual property created by individuals and organizations alike, and information that individuals believe should be protected from unreasonable intrusion. Organizations must build numerous information security and privacy responses into their daily operations to protect the business itself, fully meet legal requirements, and to meet the expectations of employees and customers.

Instructor Materials for Legal Issues in Information Security include: PowerPoint Lecture Slides Instructor's Guide Sample Course Syllabus Quiz & Exam Questions Case

Scenarios/Handouts New to the Second Edition: • Includes discussions of amendments in several relevant federal and state laws and regulations since 2011 • Reviews relevant court decisions that have come to light since the publication of the first edition • Includes numerous information security data breaches highlighting new vulnerabilities

One-volume coverage of all the core concepts, terminology, issues, and practical skills modern computer security professionals need to know * *The most up-to-date computer security concepts text on the market. *Strong coverage and comprehensive analysis of key attacks, including denial of service, malware, and viruses. *Covers oft-neglected subject areas such as cyberterrorism, computer fraud, and industrial espionage. *Contains end-of-chapter exercises, projects, review questions, and plenty of realworld tips. Computer

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Security Fundamentals, Second Edition is designed to be the ideal one volume gateway into the entire field of computer security. It brings together thoroughly updated coverage of all basic concepts, terminology, and issues, along with the practical skills essential to security. Drawing on his extensive experience as both an IT professional and instructor, Chuck Easttom thoroughly covers core topics such as vulnerability assessment, virus attacks, buffer overflow, hacking, spyware, network defense, firewalls, VPNs, Intrusion Detection Systems, and passwords. Unlike many other authors, however, he also fully addresses more specialized issues, including cyber terrorism, industrial espionage and encryption - including public/private key systems, digital signatures, and certificates. This edition has been extensively updated to address the latest issues and technologies, including cyberbullying/cyberstalking, session hijacking, steganography, and more. Its examples have been updated to reflect the current state-of-the-art in both attacks and defense. End-of-chapter exercises, projects, and review questions guide readers in applying the knowledge they've gained, and Easttom offers many tips that readers would otherwise have to discover through hard experience.

Network Security Essentials, Third Edition is a thorough, up-to-date introduction to the deterrence, prevention, detection, and correction of security violations involving information delivery across networks and the Internet.

Your expert guide to information security As businesses and consumers become more dependent on complex multinational information systems, the need to understand and devise sound information security systems has never been greater. This title takes a practical approach to

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information security by focusing on real-world examples. While not sidestepping the theory, the emphasis is on developing the skills and knowledge that security and information technology students and professionals need to face their challenges. The 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 and multilateral security, covert channels and inference control, BLP and Biba's models, firewalls, and intrusion detection systems * **Protocols:** simple authentication protocols, session keys, perfect forward secrecy, timestamps, SSL, IPsec, Kerberos, and GSM * **Software:** flaws and malware, buffer overflows, viruses and worms, software reverse engineering, digital rights management, secure software development, and operating systems security Additional features include numerous figures and tables to illustrate and clarify complex topics, as well as problems ranging from basic to challenging to help readers apply their newly developed skills. A solutions manual and a set of classroom-tested PowerPoint(r) slides will assist instructors in their course development. Students and professors in information technology, computer science, and

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engineering, and professionals working in the field will find this reference most useful to solve their information security issues. An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department. An Instructor Support FTP site is also available.

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

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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.

PART OF THE JONES & BARTLETT LEARNING INFORMATION SYSTEMS SECURITY & ASSURANCE SERIES Revised and updated with the latest information from this fast-paced field, **Fundamentals of Information System Security, Second Edition** provides a comprehensive overview of the essential concepts readers must know as they

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pursue careers in information systems security. The text opens with a discussion of the new risks, threats, and vulnerabilities associated with the transformation to a digital world, including a look at how business, government, and individuals operate today. Part 2 is adapted from the Official (ISC)² SSCP Certified Body of Knowledge and presents a high-level overview of each of the seven domains within the System Security Certified Practitioner certification. The book closes with a resource for readers who desire additional material on information security standards, education, professional certifications, and compliance laws. With its practical, conversational writing style and step-by-step examples, this text is a must-have resource for those entering the world of information systems security. New to the Second Edition: - New material on cloud computing, risk analysis, IP mobility, OMNIBus, and Agile Software Development. - Includes the most recent updates in Information Systems Security laws, certificates, standards, amendments, and the proposed Federal Information Security Amendments Act of 2013 and HITECH Act. - Provides new cases and examples pulled from real-world scenarios. - Updated data, tables, and sidebars provide the most current information in the field.

Hacker Techniques, Tools, and Incident Handling, Third Edition begins with an examination of the

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landscape, key terms, and concepts that a security professional needs to know about hackers and computer criminals who break into networks, steal information, and corrupt data. It goes on to review the technical overview of hacking: how attacks target networks and the methodology they follow. The final section studies those methods that are most effective when dealing with hacking attacks, especially in an age of increased reliance on the Web. Written by subject matter experts, with numerous real-world examples, *Hacker Techniques, Tools, and Incident Handling, Third Edition* provides readers with a clear, comprehensive introduction to the many threats on our Internet environment and security and what can be done to combat them.

A strong managerial focus along with a solid technical presentation of security tools. Guided by discussions with IT security professionals, *Corporate Computer and Network Security* covers the specific material that all IT majors and future IT security specialists need to learn from an introductory network security course. This text has been entirely rewritten in its second edition to reflect the latest trends and cutting-edge technology that students will work with in their future careers.

Since formed in 2002, DHS has been at the forefront of determining and furthering some of the most hotly debated security issues facing the U.S. and global community in the 21st century. Nearly 200 university

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programs with undergrad and graduate majors have cropped up in the last dozen-plus years with limited resources available to teach from. Homeland Security, Third Edition will continue to serve as the core textbook covering the fundamental history, formation, oversight, and reach of DHS currently. The book is fully updated with new laws, regulations and strategies across intelligence, transportation sectors, emergency management, border security, public utilities and public health.

Written by leading information security educators, this fully revised, full-color computer security textbook covers CompTIA's fastest-growing credential, CompTIA Security+. Principles of Computer Security, Fourth Edition is a student-tested, introductory computer security textbook that provides comprehensive coverage of computer and network security fundamentals in an engaging and dynamic full-color design. In addition to teaching key computer security concepts, the textbook also fully prepares you for CompTIA Security+ exam SY0-401 with 100% coverage of all exam objectives. Each chapter begins with a list of topics to be covered and features sidebar exam and tech tips, a chapter summary, and an end-of-chapter assessment section that includes key term, multiple choice, and essay quizzes as well as lab projects. Electronic content includes CompTIA Security+ practice exam questions and a PDF copy of the book. Key features:

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CompTIA Approved Quality Content (CAQC)

Electronic content features two simulated practice exams in the Total Tester exam engine and a PDF eBook Supplemented by Principles of Computer Security Lab Manual, Fourth Edition, available separately White and Conklin are two of the most well-respected computer security educators in higher education Instructor resource materials for adopting instructors include: Instructor Manual, PowerPoint slides featuring artwork from the book, and a test bank of questions for use as quizzes or exams Answers to the end of chapter sections are not included in the book and are only available to adopting instructors Learn how to: Ensure operational, organizational, and physical security Use cryptography and public key infrastructures (PKIs) Secure remote access, wireless networks, and virtual private networks (VPNs) Authenticate users and lock down mobile devices Harden network devices, operating systems, and applications Prevent network attacks, such as denial of service, spoofing, hijacking, and password guessing Combat viruses, worms, Trojan horses, and rootkits Manage e-mail, instant messaging, and web security Explore secure software development requirements Implement disaster recovery and business continuity measures Handle computer forensics and incident response Understand legal, ethical, and privacy issues

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PART OF THE NEW JONES & BARTLETT LEARNING INFORMATION SYSTEMS SECURITY & ASSURANCE SERIES Fully revised and updated with the latest data from the field, Network Security, Firewalls, and VPNs, Second Edition provides a unique, in-depth look at the major business challenges and threats that are introduced when an organization's network is connected to the public Internet. Written by an industry expert, this book provides a comprehensive explanation of network security basics, including how hackers access online networks and the use of Firewalls and VPNs to provide security countermeasures. Using examples and exercises, this book incorporates hands-on activities to prepare the reader to disarm threats and prepare for emerging technologies and future attacks. Key Features: -Introduces the basics of network security exploring the details of firewall security and how VPNs operate -Illustrates how to plan proper network security to combat hackers and outside threats -Discusses firewall configuration and deployment and managing firewall security -Identifies how to secure local and internet communications with a VPN Instructor Materials for Network Security, Firewalls, VPNs include: PowerPoint Lecture Slides Exam Questions Case Scenarios/Handouts About the Series This book is part of the Information Systems Security and Assurance Series from Jones and Bartlett Learning.

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Designed for courses and curriculums in IT Security, Cybersecurity, Information Assurance, and Information Systems Security, this series features a comprehensive, consistent treatment of the most current thinking and trends in this critical subject area. These titles deliver fundamental information-security principles packed with real-world applications and examples. Authored by Certified Information Systems Security Professionals (CISSPs), they deliver comprehensive information on all aspects of information security. Reviewed word for word by leading technical experts in the field, these books are not just current, but forward-thinking putting you in the position to solve the cybersecurity challenges not just of today, but of tomorrow, as well."

Readers discover a managerially-focused overview of information security with a thorough treatment of how to most effectively administer it with **MANAGEMENT OF INFORMATION SECURITY, 5E**. Information throughout helps readers become information security management practitioners able to secure systems and networks in a world where continuously emerging threats, ever-present attacks, and the success of criminals illustrate the weaknesses in current information technologies. Current and future professional managers complete this book with the exceptional blend of skills and experiences to develop and manage the more secure computing environments that today's organizations need. This edition offers a tightened focus on key executive and managerial aspects of information security while still emphasizing the important foundational

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material to reinforce key concepts. Updated content reflects the most recent developments in the field, including NIST, ISO, and security governance. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Comprehensive Guide to Computer Security, Extensively Revised with Newer Technologies, Methods, Ideas, and Examples In this updated guide, University of California at Davis Computer Security Laboratory co-director Matt Bishop offers clear, rigorous, and thorough coverage of modern computer security. Reflecting dramatic growth in the quantity, complexity, and consequences of security incidents, Computer Security, Second Edition, links core principles with technologies, methodologies, and ideas that have emerged since the first edition's publication. Writing for advanced undergraduates, graduate students, and IT professionals, Bishop covers foundational issues, policies, cryptography, systems design, assurance, and much more. He thoroughly addresses malware, vulnerability analysis, auditing, intrusion detection, and best-practice responses to attacks. In addition to new examples throughout, Bishop presents entirely new chapters on availability policy models and attack analysis.

Understand computer security goals, problems, and challenges, and the deep links between theory and practice
Learn how computer scientists seek to prove whether systems are secure
Define security policies for confidentiality, integrity, availability, and more
Analyze policies to reflect core questions of trust, and use them to constrain operations and change
Implement cryptography as one component of a wider computer and network security strategy
Use system-oriented techniques to establish effective security mechanisms, defining who can act and what they can do
Set appropriate security goals for a system or product, and ascertain how well it meets them
Recognize program flaws

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and malicious logic, and detect attackers seeking to exploit them This is both a comprehensive text, explaining the most fundamental and pervasive aspects of the field, and a detailed reference. It will help you align security concepts with realistic policies, successfully implement your policies, and thoughtfully manage the trade-offs that inevitably arise. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

This book on computer security threats explores the computer security threats and includes a broad set of solutions to defend the computer systems from these threats. The book is triggered by the understanding that digitalization and growing dependence on the Internet poses an increased risk of computer security threats in the modern world. The chapters discuss different research frontiers in computer security with algorithms and implementation details for use in the real world. Researchers and practitioners in areas such as statistics, pattern recognition, machine learning, artificial intelligence, deep learning, data mining, data analytics and visualization are contributing to the field of computer security. The intended audience of this book will mainly consist of researchers, research students, practitioners, data analysts, and business professionals who seek information on computer security threats and its defensive measures.

A systems analysis approach to enterprise network design Master techniques for checking the health of an existing network to develop a baseline for measuring performance of a new network design Explore solutions for meeting QoS requirements, including ATM traffic management, IETF controlled-load and guaranteed services, IP multicast, and advanced switching, queuing, and routing algorithms Develop network designs that provide the high bandwidth and low delay required for real-time applications such as multimedia,

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distance learning, and videoconferencing Identify the advantages and disadvantages of various switching and routing protocols, including transparent bridging, Inter-Switch Link (ISL), IEEE 802.1Q, IGRP, EIGRP, OSPF, and BGP4 Effectively incorporate new technologies into enterprise network designs, including VPNs, wireless networking, and IP Telephony Top-Down Network Design, Second Edition, is a practical and comprehensive guide to designing enterprise networks that are reliable, secure, and manageable. Using illustrations and real-world examples, it teaches a systematic method for network design that can be applied to campus LANs, remote-access networks, WAN links, and large-scale internetworks. You will learn to analyze business and technical requirements, examine traffic flow and QoS requirements, and select protocols and technologies based on performance goals. You will also develop an understanding of network performance factors such as network utilization, throughput, accuracy, efficiency, delay, and jitter. Several charts and job aids will help you apply a top-down approach to network design. This Second Edition has been revised to include new and updated material on wireless networks, virtual private networks (VPNs), network security, network redundancy, modularity in network designs, dynamic addressing for IPv4 and IPv6, new network design and management tools, Ethernet scalability options (including 10-Gbps Ethernet, Metro Ethernet, and Long-Reach Ethernet), and networks that carry voice and data traffic. Top-Down Network Design, Second Edition, has a companion website at <http://www.topdownbook.com>, which includes updates to the book, links to white papers, and supplemental information about design resources. This book is part of the Networking Technology Series from Cisco Press, which offers networking professionals valuable information for constructing efficient networks, understanding new

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technologies, and building successful careers.

Corporate Governance Matters gives corporate board members, officers, directors, and other stakeholders the full spectrum of knowledge they need to implement and sustain superior governance. Authored by two leading experts, this comprehensive reference thoroughly addresses every component of governance. The authors carefully synthesize current academic and professional research, summarizing what is known, what is unknown, and where the evidence remains inconclusive. Along the way, they illuminate many key topics overlooked in previous books on the subject. Coverage includes: International corporate governance. Compensation, equity ownership, incentives, and the labor market for CEOs. Optimal board structure, tradeoffs, and consequences. Governance, organizational strategy, business models, and risk management. Succession planning. Financial reporting and external audit. The market for corporate control. Roles of institutional and activist shareholders. Governance ratings. The authors offer models and frameworks demonstrating how the components of governance fit together, with concrete examples illustrating key points. Throughout, their balanced approach is focused strictly on two goals: to “get the story straight,” and to provide useful tools for making better, more informed decisions. For introductory courses in IT Security. A strong business focus through a solid technical presentation of security tools. Corporate Computer Security provides a strong business focus along with a solid technical understanding of security tools. This text gives students the IT security skills they need for the workplace. This edition is more business focused and contains additional hands-on projects, coverage of wireless and data security, and case studies. This program will provide a better teaching and learning experience-for you and your students. Here's how: Encourage Student's to Apply

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Concepts: Each chapter now contains new hands-on projects that use contemporary software. Business Environment

Focus: This edition includes more of a focus on the business applications of the concepts. Emphasis has been placed on securing corporate information systems, rather than just hosts in general. Keep Your Course Current and Relevant: New examples, exercises, and research findings appear throughout the text.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. For introductory courses in IT Security. A strong business focus through a solid technical presentation of security tools. Corporate Computer Security provides a strong business focus along with a solid technical understanding of security tools. This text gives students the IT security skills they need for the workplace. This edition is more business focused and contains additional hands-on projects, coverage of wireless and data security, and case studies. This program will provide a better teaching and learning experience—for you and your students. Here's how: Encourage Student's to Apply

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This book is suitable for use in a university-level first course in computing (CS1), as well as the increasingly popular course known as CS0. It is difficult for many students to master basic concepts in computer science and programming. A large portion of the confusion can be blamed on the complexity of

