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Principles Of Information Security 5th Edition

Information Security professionals, managers of IT employees, business managers, organizational security officers, network administrators, students or Business and Information Systems, IT, Accounting, Criminal Justice or IS majors.

Reflecting the latest trends and developments from the information security field, best-selling Security+ Guide to Network Security Fundamentals, Fourth Edition, provides a complete introduction to practical network and computer security and maps to the CompTIA Security+ SY0-301

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Certification Exam. The text covers the fundamentals of network security, including compliance and operational security; threats and vulnerabilities; application, data, and host security; access control and identity management; and cryptography. The updated edition includes new topics, such as psychological approaches to social engineering attacks, Web application attacks, penetration testing, data loss prevention, cloud computing security, and application programming development security. The new edition features activities that link to the Information Security Community Site, which offers video lectures, podcats, discussion boards, additional hands-on activities and more to provide a wealth of resources and up-to-the minute information. Important Notice: Media content referenced

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This timely textbook presents a comprehensive guide to the core topics in cybersecurity, covering issues of security that extend beyond traditional computer networks to the ubiquitous mobile communications and online social networks that have become part of our daily lives. In the context of our growing dependence on an ever-changing digital ecosystem, this book stresses the importance of security awareness, whether in our homes, our businesses, or our public spaces. This fully updated new edition features new material on the security issues raised by blockchain technology, and its use in logistics, digital ledgers, payments systems, and digital contracts. Topics

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and features: Explores the full range of security risks and vulnerabilities in all connected digital systems Inspires debate over future developments and improvements necessary to enhance the security of personal, public, and private enterprise systems Raises thought-provoking questions regarding legislative, legal, social, technical, and ethical challenges, such as the tension between privacy and security Describes the fundamentals of traditional computer network security, and common threats to security Reviews the current landscape of tools, algorithms, and professional best practices in use to maintain security of digital systems Discusses the security issues introduced by the latest generation of network technologies, including mobile systems, cloud computing,

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and blockchain Presents exercises of varying levels of difficulty at the end of each chapter, and concludes with a diverse selection of practical projects Offers supplementary material for students and instructors at an associated website, including slides, additional projects, and syllabus suggestions This important textbook/reference is an invaluable resource for students of computer science, engineering, and information management, as well as for practitioners working in data- and information-intensive industries.

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear

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that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United

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States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Security in Computing

Strengthening Forensic Science in the United States

Principles, Techniques, and Applications

Computer Security

Principles of Computer Security: CompTIA Security+ and

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Beyond, Sixth Edition (Exam SY0-601)

Bullock, Haddow, and Coppola have set the standard for homeland security textbooks, and they follow up best-selling third edition with this substantially improved version. As with its predecessor, the book clearly delineates the bedrock principles of preparing for, mitigating, managing, and recovering from emergencies and disasters. However, this new edition emphasizes their value with improved clarity and focus. What's more, it has been thoroughly revised to include changes that are based on transformations relevant to the political, budgetary, and legal aspects of homeland

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security that have changed since the 2008 Presidential election (and subsequent change in the administration). These include: new chapters on intelligence and counterterrorism, border security, transportation security, and cybersecurity; an expansion of material on the organization of the Department of Homeland Security; strategic and philosophical changes that are recommended and/or that have occurred as a result of the Quadrennial Homeland Security Review completed in 2010; updated budgetary information on both homeland security programs, and on the homeland security grants that have supported safety and security

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*actions at the state and local levels, as well as in the private sector; and changes in the way the public perceives and receives information about security risk, including the possible elimination of the Homeland Security Advisory System. * New chapter that focuses specifically on the border and transportation security missions * An increased focus on cyber security and infrastructure security, both of which are rapidly growing in importance in the homeland security field among officials at all levels * A companion website that includes a full online Instructor's Guide and PowerPoint Lecture Slides.*

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

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*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. Specifically oriented to the needs of information systems students, **PRINCIPLES OF INFORMATION SECURITY, 5e** delivers the latest technology and*

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developments from the field. Taking a managerial approach, this bestseller teaches all the aspects of information security-not just the technical control perspective. It provides a broad review of the entire field of information security, background on many related elements, and enough detail to facilitate understanding of the topic. It covers the terminology of the field, the history of the discipline, and an overview of how to manage an information security program. Current and relevant, the fifth edition includes the latest practices, fresh examples, updated material on technical security controls, emerging legislative issues, new coverage of

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digital forensics, and hands-on application of ethical issues in IS security. It is the ultimate resource for future business decision-makers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Introduction to Machine Learning with Applications in Information Security provides a class-tested introduction to a wide variety of machine learning algorithms, reinforced through realistic applications. The book is accessible and doesn't prove theorems, or otherwise dwell on mathematical theory. The goal is to present

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topics at an intuitive level, with just enough detail to clarify the underlying concepts. The book covers core machine learning topics in-depth, including Hidden Markov Models, Principal Component Analysis, Support Vector Machines, and Clustering. It also includes coverage of Nearest Neighbors, Neural Networks, Boosting and AdaBoost, Random Forests, Linear Discriminant Analysis, Vector Quantization, Naive Bayes, Regression Analysis, Conditional Random Fields, and Data Analysis. Most of the examples in the book are drawn from the field of information security, with many of the machine learning applications specifically focused

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on malware. The applications presented are designed to demystify machine learning techniques by providing straightforward scenarios. Many of the exercises in this book require some programming, and basic computing concepts are assumed in a few of the application sections. However, anyone with a modest amount of programming experience should have no trouble with this aspect of the book. Instructor resources, including PowerPoint slides, lecture videos, and other relevant material are provided on an accompanying website: <http://www.cs.sjsu.edu/~stamp/ML/>. For the reader's benefit, the figures in the book are also available in

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electronic form, and in color. About the Author Mark Stamp has been a Professor of Computer Science at San Jose State University since 2002. Prior to that, he worked at the National Security Agency (NSA) for seven years, and a Silicon Valley startup company for two years. He received his Ph.D. from Texas Tech University in 1992. His love affair with machine learning began in the early 1990s, when he was working at the NSA, and continues today at SJSU, where he has supervised vast numbers of master's student projects, most of which involve a combination of information security and machine learning.

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Computer Security - ESORICS 94

Principles and Practices

The Fourth Industrial Revolution

Principles of Computer Security, Fourth Edition

Safe Computing in the Information Age

As threats to the security of information pervade the fabric of everyday life, A Vulnerable System describes how, even as the demand for information security increases, the needs of society are not being met. The result is that the confidentiality of our personal data, the integrity of our elections, and the stability of foreign relations between countries are increasingly at risk. Andrew J. Stewart convincingly shows that

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emergency software patches and new security products cannot provide the solution to threats such as computer hacking, viruses, software vulnerabilities, and electronic spying. Profound underlying structural problems must first be understood, confronted, and then addressed. A Vulnerable System delivers a long view of the history of information security, beginning with the creation of the first digital computers during the Cold War. From the key institutions of the so-called military industrial complex in the 1950s to Silicon Valley start-ups in the 2020s, the relentless pursuit of new technologies has come at great cost. The absence of knowledge regarding the history of information

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security has caused the lessons of the past to be forsaken for the novelty of the present, and has led us to be collectively unable to meet the needs of the current day. From the very beginning of the information age, claims of secure systems have been crushed by practical reality. The myriad risks to technology, Stewart reveals, cannot be addressed without first understanding how we arrived at this moment. A Vulnerable System is an enlightening and sobering history of a topic that affects crucial aspects of our lives.

Fully updated computer security essentials—quality approved by CompTIA Learn IT security fundamentals while getting complete coverage of the objectives for

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the latest release of CompTIA Security+ certification exam SY0-501. This thoroughly revised, full-color textbook discusses communication, infrastructure, operational security, attack prevention, disaster recovery, computer forensics, and much more. Written by a pair of highly respected security educators, Principles of Computer Security: CompTIA Security+® and Beyond, Fifth Edition (Exam SY0-501) will help you pass the exam and become a CompTIA certified computer security expert. Find out how to:

- Ensure operational, organizational, and physical security***
- Use cryptography and public key infrastructures (PKIs)***
- Secure remote access, wireless networks, and virtual private networks***

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(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 Online content includes:

- Test engine that provides full-length practice exams and customized quizzes by chapter or exam objective
- 200 practice exam questions Each chapter includes:

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•Learning objectives •Real-world examples •Try This! and Cross Check exercises •Tech Tips, Notes, and Warnings •Exam Tips •End-of-chapter quizzes and lab projects

Between the 18th and 19th centuries, Britain experienced massive leaps in technological, scientific, and economical advancement

PMBOK® Guide is the go-to resource for project management practitioners. The project management profession has significantly evolved due to emerging technology, new approaches and rapid market changes. Reflecting this evolution, The Standard for Project Management enumerates 12 principles of project management and the PMBOK® Guide &-

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Seventh Edition is structured around eight project performance domains. This edition is designed to address practitioners' current and future needs and to help them be more proactive, innovative and nimble in enabling desired project outcomes. This edition of the PMBOK® Guide:

- Reflects the full range of development approaches (predictive, adaptive, hybrid, etc.);***
- Provides an entire section devoted to tailoring the development approach and processes;***
- Includes an expanded list of models, methods, and artifacts;***
- Focuses on not just delivering project outputs but also enabling outcomes; and***
- Integrates with PMI standards+™ for information and standards application content based***

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on project type, development approach, and industry sector.

Guide to Computer Network Security

Security Awareness: Applying Practical Security in Your World

Guide to Network Security

Privacy Online

A Geometric Analysis of Five Moral Principles

Use this helpful book to learn about the leadership tools to fuel success, grow your team, and become the visionary you were meant to be. True leadership isn't a matter of having a certain job or title. In fact, being chosen for a position is only the first of

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the five levels every effective leader achieves. To become more than "the boss" people follow only because they are required to, you have to master the ability to invest in people and inspire them. To grow further in your role, you must achieve results and build a team that produces. You need to help people to develop their skills to become leaders in their own right. And if you have the skill and dedication, you can reach the pinnacle of leadership—where experience will allow you to extend your influence beyond your immediate reach and time for the benefit of others. The 5 Levels of Leadership are: 1.

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Position—People follow because they have to. 2. Permission—People follow because they want to. 3. Production—People follow because of what you have done for the organization. 4. People Development—People follow because of what you have done for them personally. 5. Pinnacle—People follow because of who you are and what you represent. Through humor, in-depth insight, and examples, internationally recognized leadership expert John C. Maxwell describes each of these stages of leadership. He shows you how to master each level and rise up to the next to become a more influential, respected, and successful

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leader.

Autonomous cars, drones, and electronic surveillance systems are examples of technologies that raise serious ethical issues. In this analytic investigation, Martin Peterson articulates and defends five moral principles for addressing ethical issues related to new and existing technologies: the cost-benefit principle, the precautionary principle, the sustainability principle, the autonomy principle, and the fairness principle. It is primarily the method developed by Peterson for articulating and analyzing the five principles that is

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novel. He argues that geometric concepts such as points, lines, and planes can be put to work for clarifying the structure and scope of these and other moral principles. This geometric account is based on the Aristotelian dictum that like cases should be treated alike, meaning that the degree of similarity between different cases can be represented as a distance in moral space. The more similar a pair of cases are from a moral point of view, the closer is their location in moral space. A case that lies closer in moral space to a paradigm case for some principle p than to any paradigm for any

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other principle should be analyzed by applying principle p. The book also presents empirical results from a series of experimental studies in which experts (philosophers) and laypeople (engineering students) have been asked to apply the geometric method to fifteen real-world cases. The empirical findings indicate that experts and laypeople do in fact apply geometrically construed moral principles in roughly, but not exactly, the manner advocates of the geometric method believe they ought to be applied.

Computer Security: Principles and Practice,
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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

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Security: Principles and Practice, 1e, the winner of the Textbook Excellence Award for the best Computer Science textbook of 2008. Designed to provide students with the knowledge needed to protect computers and networks from increasingly sophisticated attacks, *SECURITY AWARENESS: APPLYING PRACTICE SECURITY IN YOUR WORLD, Fourth Edition* continues to present the same straightforward, practical information that has made previous editions so popular. For most students, practical computer security poses some daunting challenges: What type of attacks will antivirus software prevent? How

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do I set up a firewall? How can I test my computer to be sure that attackers cannot reach it through the Internet? When and how should I install Windows patches? This text is designed to help students understand the answers to these questions through a series of real-life user experiences. In addition, hands-on projects and case projects give students the opportunity to test their knowledge and apply what they have learned.

*SECURITY AWARENESS: APPLYING PRACTICE
SECURITY IN YOUR WORLD, Fourth Edition*

contains up-to-date information on relevant topics such as protecting mobile devices and

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wireless local area networks. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

*Information Security Management Principles
Plant Pathology*

*Cryptographic Principles and Applications
Principles and Practice*

*A Guide to the Project Management Body of Knowledge (PMBOK® Guide) - Seventh Edition
and The Standard for Project Management
(BRAZILIAN PORTUGUESE)*

Practice the Computer Security Skills You Need to

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Succeed! 40+ lab exercises challenge you to solve problems based on realistic case studies Step-by-step scenarios require you to think critically Lab analysis tests measure your understanding of lab results Key term quizzes help build your vocabulary Labs can be performed on a Windows, Linux, or Mac platform with the use of virtual machines In this Lab Manual, you'll practice Configuring workstation network connectivity Analyzing network communication Establishing secure network application communication using TCP/IP protocols Penetration testing with Nmap, metasploit, password

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cracking, Cobalt Strike, and other tools
Defending against network application attacks, including SQL injection, web browser exploits, and email attacks
Combatting Trojans, man-in-the-middle attacks, and steganography
Hardening a host computer, using antivirus applications, and configuring firewalls
Securing network communications with encryption, secure shell (SSH), secure copy (SCP), certificates, SSL, and IPsec
Preparing for and detecting attacks
Backing up and restoring data
Handling digital forensics and incident response
Instructor resources available: This lab manual supplements the textbook

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Principles of Computer Security, Fourth Edition, which is available separately Virtual machine files Solutions to the labs are not included in the book and are only available to adopting instructors Safeguarding the confidentiality, authenticity, integrity, and non-repudiation of information is paramount to organizational stability and success. This new book provides an understanding of information security, potential threats to our information, and effective countermeasures to proactively combat those threats. A comprehensive review of cryptographic techniques is presented and

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explained in simple mathematical terms. The text covers symmetrical and asymmetrical encryption, digital signatures, Kerberos, creation/deployment of strong keys and passwords, Virtual Private Networks, SET, SSL, SSH, IPsec, and authentication techniques. A detailed examination of Tiny Encryption Algorithm (TEA) exposes readers to the inner workings of encryption. CD-ROM experiments help solidify the learning experience. Emphasis throughout is on the application of the cryptographic methods and support structures needed to effectively apply the principles to create a

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secure business setting.

Information Security: Principles and Practices, Second Edition Everything You Need to Know About Modern Computer Security, in One Book Clearly explains all facets of information security in all 10 domains of the latest Information Security Common Body of Knowledge [(ISC) ² CBK]. Thoroughly updated for today's challenges, technologies, procedures, and best practices. The perfect resource for anyone pursuing an IT security career. Fully updated for the newest technologies and best practices, Information Security: Principles and

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Practices, Second Edition thoroughly covers all 10 domains of today's Information Security Common Body of Knowledge. Two highly experienced security practitioners have brought together all the foundational knowledge you need to succeed in today's IT and business environments. They offer easy-to-understand, practical coverage of topics ranging from security management and physical security to cryptography and application development security. This edition fully addresses new trends that are transforming security, from cloud services to mobile applications, "Bring Your Own

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Device” (BYOD) strategies to today's increasingly rigorous compliance requirements. Throughout, you'll find updated case studies, review questions, and exercises – all designed to reveal today's real-world IT security challenges and help you overcome them. Learn how to -- Recognize the evolving role of IT security -- Identify the best new opportunities in the field -- Discover today's core information security principles of success -- Understand certification programs and the CBK -- Master today's best practices for governance and risk management -- Architect and design systems to maximize security --

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Plan for business continuity -- Understand the legal, investigatory, and ethical requirements associated with IT security -- Improve physical and operational security -- Implement effective access control systems -- Effectively utilize cryptography -- Improve network and Internet security -- Build more secure software -- Define more effective security policies and standards -- Preview the future of information security

CYBERSECURITY AND LOCAL GOVERNMENT

Learn to secure your local government's networks with this one-of-a-kind resource In Cybersecurity and

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Local Government, a distinguished team of researchers delivers an insightful exploration of cybersecurity at the level of local government. The book makes a compelling argument that every local government official, elected or otherwise, must be reasonably knowledgeable about cybersecurity concepts and provide appropriate support for it within their governments. It also lays out a straightforward roadmap to achieving those objectives, from an overview of cybersecurity definitions to descriptions of the most common security challenges faced by local governments. The

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accomplished authors specifically address the recent surge in ransomware attacks and how they might affect local governments, along with advice as to how to avoid and respond to these threats. They also discuss the cybersecurity law, cybersecurity policies that local government should adopt, the future of cybersecurity, challenges posed by Internet of Things, and much more. Throughout, the authors provide relevant field examples, case studies of actual local governments, and examples of policies to guide readers in their own application of the concepts discussed within. Cybersecurity and Local

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Government also offers: A thorough introduction to cybersecurity generally, including definitions of key cybersecurity terms and a high-level overview of the subject for non-technologists. A comprehensive exploration of critical information for local elected and top appointed officials, including the typical frequencies and types of cyberattacks. Practical discussions of the current state of local government cybersecurity, with a review of relevant literature from 2000 to 2021. In-depth examinations of operational cybersecurity policies, procedures and practices, with recommended best practices. Perfect

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for local elected and top appointed officials and staff as well as local citizens, Cybersecurity and Local Government will also earn a place in the libraries of those studying or working in local government with an interest in cybersecurity.

Security+ Guide to Network Security Fundamentals

Principles of Information Security

Advances in Cyber Security

Proven Steps to Maximize Your Potential

Stallings provides a survey of the principles and practice of cryptography

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and network security. This edition has been updated to reflect the latest developments in the field. It has also been extensively reorganized to provide the optimal sequence for classroom instruction and self-study.

This glossary provides a central resource of definitions most commonly used in Nat. Institute of Standards and Technology (NIST) information security publications and in the Committee for National Security Systems (CNSS)

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information assurance publications. Each entry in the glossary points to one or more source NIST publications, and/or CNSSI-4009, and/or supplemental sources where appropriate. This is a print on demand edition of an important, hard-to-find publication. Principles of Information Security Cengage Learning This is the eBook of the printed book and may not include any media, website access codes, or print supplements that

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may come packaged with the bound book. The Principles and Practice of Cryptography and Network Security Stallings' Cryptography and Network Security, Seventh Edition, introduces the reader to the compelling and evolving field of cryptography and network security. In an age of viruses and hackers, electronic eavesdropping, and electronic fraud on a global scale, security is paramount. The purpose of this book is to provide a practical

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survey of both the principles and practice of cryptography and network security. In the first part of the book, the basic issues to be addressed by a network security capability are explored by providing a tutorial and survey of cryptography and network security technology. The latter part of the book deals with the practice of network security: practical applications that have been implemented and are in use to provide network

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security. The Seventh Edition streamlines subject matter with new and updated material – including Sage, one of the most important features of the book. Sage is an open-source, multiplatform, freeware package that implements a very powerful, flexible, and easily learned mathematics and computer algebra system. It provides hands-on experience with cryptographic algorithms and supporting homework assignments. With Sage, the reader

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learns a powerful tool that can be used for virtually any mathematical application. The book also provides an unparalleled degree of support for the reader to ensure a successful learning experience.

A Strategic-Based Approach
Principles of All-Hazards Risk
Management
Information Security
Cryptography and Network Security
Principles of Computer Security:

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CompTIA Security+ and Beyond, Fifth Edition

Fully updated computer security essentials—mapped to the CompTIA Security+ SY0-601 exam Save 10% on any CompTIA exam voucher! Coupon code inside. Learn IT security fundamentals while getting complete coverage of the objectives for the latest release of CompTIA Security+ certification exam SY0-601. This thoroughly revised, full-color textbook covers how to secure

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hardware, systems, and software. It addresses new threats and cloud environments, and provides additional coverage of governance, risk, compliance, and much more. Written by a team of highly respected security educators, Principles of Computer Security: CompTIA Security+™ and Beyond, Sixth Edition (Exam SY0-601) will help you become a CompTIA-certified computer security expert while also preparing you for a

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***successful career. Find out 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,***

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*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 Online content features: Test
engine that provides full-length
practice exams and customized quizzes
by chapter or exam objective Each*

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***chapter includes: Learning objectives
Real-world examples Try This! and Cross
Check exercises Tech Tips, Notes, and
Warnings Exam Tips End-of-chapter
quizzes and lab projects***

***This fifth edition of the classic
textbook in plant pathology outlines
how to recognize, treat, and prevent
plant diseases. It provides extensive
coverage of abiotic, fungal, viral,
bacterial, nematode and other plant
diseases and their associated***

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epidemiology. It also covers the genetics of resistance and modern management on plant disease. Plant Pathology, Fifth Edition, is the most comprehensive resource and textbook that professionals, faculty and students can consult for well-organized, essential information. This thoroughly revised edition is 45% larger, covering new discoveries and developments in plant pathology and enhanced by hundreds of new color

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photographs and illustrations. The latest information on molecular techniques and biological control in plant diseases Comprehensive in coverage Numerous excellent diagrams and photographs A large variety of disease examples for instructors to choose for their course Computers at Risk presents a comprehensive agenda for developing nationwide policies and practices for computer security. Specific

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recommendations are provided for industry and for government agencies engaged in computer security activities. The volume also outlines problems and opportunities in computer security research, recommends ways to improve the research infrastructure, and suggests topics for investigators. The book explores the diversity of the field, the need to engineer countermeasures based on speculation of what experts think computer attackers

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may do next, why the technology community has failed to respond to the need for enhanced security systems, how innovators could be encouraged to bring more options to the marketplace, and balancing the importance of security against the right of privacy.

The Comprehensive Guide to Computer Security, Extensively Revised with Newer Technologies, Methods, Ideas, and Examples In this updated guide, University of California at Davis

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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

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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

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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

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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 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

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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.

*Understanding the Fundamentals of InfoSec in Theory and Practice
Information Security Intelligence
A Report to Congress*

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The Basics of Information Security Computers at Risk

For courses in computer/network security
Balancing principle and practice-an updated survey of the fast-moving world of computer and network security
Computer Security: Principles and Practice, 4th Edition, is ideal for courses in Computer/Network Security. The need for education in computer security and related topics continues to grow at a dramatic rate-and is essential for anyone studying Computer Science or Computer Engineering. Written for both an

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academic and professional audience, the 4th Edition continues to set the standard for computer security with a balanced presentation of principles and practice. The new edition captures the most up-to-date innovations and improvements while maintaining broad and comprehensive coverage of the entire field. The extensive offering of projects provides hands-on experience to reinforce concepts from the text. The range of supplemental online resources for instructors provides additional teaching support for this fast-moving subject. The new edition covers all security topics considered Core in the

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ACM/IEEE Computer Science Curricula 2013, as well as subject areas for CISSP (Certified Information Systems Security Professional) certification. This textbook can be used to prep for CISSP Certification and is often referred to as the 'gold standard' when it comes to information security certification. The text provides in-depth coverage of Computer Security, Technology and Principles, Software Security, Management Issues, Cryptographic Algorithms, Internet Security and more.

Security is a major consideration in the way that business and information technology systems are

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designed, built, operated, and managed. The need to be able to integrate security into those systems and the discussions with business functions and operations exists more than ever. This IBM® Redbooks® publication explores concerns that characterize security requirements of, and threats to, business and information technology (IT) systems. This book identifies many business drivers that illustrate these concerns, including managing risk and cost, and compliance to business policies and external regulations. This book shows how these drivers can be translated into capabilities and security

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needs that can be represented in frameworks, such as the IBM Security Blueprint, to better enable enterprise security. To help organizations with their security challenges, IBM created a bridge to address the communication gap between the business and technical perspectives of security to enable simplification of thought and process. The IBM Security Framework can help you translate the business view, and the IBM Security Blueprint describes the technology landscape view. Together, they can help bring together the experiences that we gained from working with many clients to build a

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comprehensive view of security capabilities and needs. This book is intended to be a valuable resource for business leaders, security officers, and consultants who want to understand and implement enterprise security by considering a set of core security capabilities and services. In today's technology-driven environment, there is an ever-increasing demand for information delivery. A compromise has to be struck between security and availability. This book is a pragmatic guide to information assurance for both business professionals and technical experts. The third edition has been updated to reflect changes in

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the IT security landscape and updates to the BCS Certification in Information Security Management Principles, which the book supports.

Most introductory texts provide a technology-based survey of methods and techniques that leaves the reader without a clear understanding of the interrelationships between methods and techniques. By providing a strategy-based introduction, the reader is given a clear understanding of how to provide overlapping defenses for critical information. This understanding provides a basis for engineering and risk-management decisions in the defense of

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information. Information security is a rapidly growing field, with a projected need for thousands of professionals within the next decade in the government sector alone. It is also a field that has changed in the last decade from a largely theory-based discipline to an experience-based discipline. This shift in the field has left several of the classic texts with a strongly dated feel.

Provides a broad introduction to the methods and techniques in the field of information security

Offers a strategy-based view of these tools and techniques, facilitating selection of overlapping methods for in-depth defense of information

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Provides very current view of the emerging standards of practice in information security
Third European Symposium on Research in Computer Security, Brighton, United Kingdom, November 7 - 9, 1994. Proceedings

A Vulnerable System

The 5 Levels of Leadership

Art and Science

Principles of Computer Security Lab Manual, Fourth Edition

GUIDE TO NETWORK SECURITY is a wide-ranging new text that provides a detailed review of the network security field, including essential terminology, the history of the discipline, and

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practical techniques to manage implementation of network security solutions. It begins with an overview of information, network, and web security, emphasizing the role of data communications and encryption. The authors then explore network perimeter defense technologies and methods, including access controls, firewalls, VPNs, and intrusion detection systems, as well as applied cryptography in public key infrastructure, wireless security, and web commerce. The final section covers additional topics relevant for information security practitioners, such as assessing network security, professional careers in the field, and contingency planning. Perfect for both aspiring and active IT professionals, **GUIDE TO NETWORK SECURITY** is an ideal resource for students who want to help organizations

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protect critical information assets and secure their systems and networks, both by recognizing current threats and vulnerabilities, and by designing and developing the secure systems of the future. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This text provides a practical survey of both the principles and practice of cryptography and network security. First, the basic issues to be addressed by a network security capability are explored through a tutorial and survey of cryptography and network security technology. Then, the practice of network security is explored via practical applications that have been implemented and are in use today.

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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

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still emphasizing the important foundational 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.

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

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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: 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

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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 Using the IBM Security Framework and IBM Security Blueprint to Realize Business-Driven Security Introduction to Information Security Glossary of Key Information Security Terms Introduction to Machine Learning with Applications in Information Security Management of Information Security This volume constitutes the proceedings of the Third

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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. As part of the Syngress Basics series, The Basics of Information Security provides you with fundamental knowledge of information security in both theoretical and practical aspects. Author Jason Andress gives you

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the basic knowledge needed to understand the key concepts of confidentiality, integrity, and availability, and then dives into practical applications of these ideas in the areas of operational, physical, network, application, and operating system security. The Basics of Information Security gives you clear-non-technical explanations of how infosec works and how to apply these principles whether you're in the IT field or want to understand how it affects your career and business. The new Second Edition has been updated for the latest trends and threats, including new material on many infosec subjects. Learn about information security without wading through a huge textbook Covers both theoretical and practical

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This book provides state-of-the-art coverage of the principles, techniques, and management of issues in cyber security, including threat attacks, privacy, signature and encryption schemes. One of the most important topics addressed concerns lightweight solutions for public key encryption in resource-constrained environments; the book highlights the

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latest developments in this area. Authentication is another central issue in cyber security. In this book, we address this aspect and sub-aspects ranging from cryptographic approaches to practical design issues, such as CAPTCHA. Privacy is another main topic that is discussed in detail, from techniques for enhancing privacy to pseudonymous schemes. Addressing key issues in the emerging field of cyber security, this book effectively bridges the gap between computer security and threat attacks, and showcases promising applications involving cryptography and security.

A Path Forward

The Ethics of Technology

Introduction to Homeland Security

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The History of Information Security in the Computer Age
Cybersecurity and Local Government