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1.4 A Security Architecture for Open Systems 26 1.5 Computer Security Trends 31 1.6 Computer Security Strategy 33 1.7 Recommended Reading and Web Sites 35 1.8 Key Terms, Review Questions, and Problems 36 PART ONE: COMPUTER SECURITY TECHNOLOGY AND PRINCIPLES 38 Chapter 2 Cryptographic Tools 38

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(Fundamental Security Design Principles) Least privilege Every process and every user of the system should operate using the least set of rights necessary to perform the task.

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Linux Security Model • Traditional security model - people or processes with “root”privileges can do anything - other accounts can do much less • Goal of hackers -to gain root privilege • Linux can be run robust and secure - many system admins. fail to use the security features - add-on tools like sudoand Tripwire available

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Computer Security Incident Response Teams Michael Miora, M. E. Kabay, and Bernie Cowens 57. Data Backups and Archives M. E. Kabay and Don Holden 58. Business Continuity Planning Michael Miora 59. Disaster Recovery Michael Miora 60. Insurance Relief Robert A. Parisi Jr., Chaim Haas, and Nancy Callahan

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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 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

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all security topics considered Core in the 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.

For courses in computer/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 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 students with hands-on experience to reinforce concepts from the text. The range of supplemental online resources for

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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

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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 information security by focusing on real-world examples. While not

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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 engineering, and professionals working in the field will find this reference most useful to solve their information security issues. An

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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 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.

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 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

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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 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 -- 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

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This is a monumental reference for the theory and practice of computer security. Comprehensive in scope, this text covers applied and practical elements, theory, and the reasons for the design of applications and security techniques. It covers both the management and the engineering issues of computer security. It provides excellent examples of ideas and mechanisms that demonstrate how disparate techniques and principles are combined in widely-used systems. This book is acclaimed for its scope, clear and lucid writing, and its combination of formal and theoretical aspects with real systems, technologies, techniques, and policies.

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. 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 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

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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 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 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.

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

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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 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

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