

Information Security Management Principles

The new emphasis on physical security resulting from the terrorist threat has forced many information security professionals to struggle to maintain their organization's focus on protecting information assets. In order to command attention, they need to emphasize the broader role of information security in the strategy of their companies. Until now, however, most books about strategy and planning have focused on the production side of the business, rather than operations. Strategic Information Security integrates the importance of sound security policy with the strategic goals of an organization. It provides IT professionals and management with insight into the issues surrounding the goals of protecting valuable information assets. This text reiterates that an effective information security program relies on more than policies or hardware and software, instead it hinges on having a mindset that security is a core part of the business and not just an afterthought. Armed with the content contained in this book, security specialists can redirect the discussion of security towards the terms and concepts that management understands. This increases the likelihood of obtaining the funding and managerial support that is needed to build and maintain airtight security programs.

Totally updated for 2011, here's the ultimate study guide for the CISSP exam. Considered the most desired certification for IT security professionals, the Certified Information Systems Security Professional designation is also a career-booster. This comprehensive study guide covers every aspect of the 2011 exam and the latest revision of the CISSP body of knowledge. It offers advice on how to pass each section of the exam and features expanded coverage of biometrics, auditing and accountability, software security testing, and other key topics. Included is a CD with two full-length, 250-question sample exams to test your progress. CISSP certification identifies the ultimate IT security professional; this complete study guide is fully updated to cover all the objectives of the 2011 CISSP exam. Provides in-depth knowledge of access control, application development security, business continuity and disaster recovery planning, cryptography, Information Security governance and risk management, operations security, physical (environmental) security, security architecture and design, and telecommunications and network security. Also covers legal and regulatory investigation and compliance. Includes two practice exams and challenging review questions on the CD. Professionals seeking the CISSP certification will boost their chances of success with CISSP: Certified Information Systems Security Professional Study Guide, 5th Edition.

MANAGEMENT OF INFORMATION SECURITY, Sixth Edition prepares you to become an information security management practitioner 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.

You'll develop both the information security skills and practical experience that organizations are looking for as they strive to ensure more secure computing environments. The text focuses on key executive and managerial aspects of information security. It also integrates coverage of CISSP and CISM throughout to effectively prepare you for certification. Reflecting the most recent developments in the field, it includes the latest information on NIST, ISO and security governance as well as emerging concerns like Ransomware, Cloud Computing and the Internet of Things.

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

Principles of Computer Security, Fourth Edition

A Complete Guide to Planning and Implementation

Principles, Algorithm, Applications, and Perspectives

Executive guide information security management, learning from leading organizations

Learning from Leading Organizations

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 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

In a world that is demanding 24/7 availability of information and using increasingly complex types of technology, there are growing risks to information and its security. A compromise has to be struck between security of information and its availability. This book, and the ISEB 'Information Security Management Principles' qualification which it supports, provide significant first steps along the path of dealing with information security in a pragmatic and comprehensive manner. 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 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 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.

Computers at Risk presents a comprehensive agenda for developing nationwide policies and practices for computer security. Specific 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 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.

Protecting Computers from Hackers and Lawyers

Computer Security

Principles and Practice

Applied Information Security

Strategic Information Security

This book will help IT and business operations managers who have been tasked with addressing security issues. It provides a solid understanding of security incident response and detailed guidance in the setting up and running of specialist incident management teams. Having an incident response plan is required for compliance with government regulations, industry standards such as PCI DSS, and certifications such as ISO 27001. This book will help organizations meet those compliance requirements.

Secure and protect sensitive personal patient healthcare information Written by a healthcare information security and privacy expert, this definitive resource fully addresses security and privacy controls for patient healthcare information. Healthcare Information Security and Privacy introduces you to the realm of healthcare and patient health records with a complete overview of healthcare organization, technology, data, occupations, roles, and third parties. Learn best practices for healthcare information security and privacy with coverage of information governance, risk assessment and management, and incident response. Written for a global audience, this comprehensive guide covers U.S. laws and regulations as well as those within the European Union, Switzerland, and Canada. Healthcare Information and Security and Privacy covers: Healthcare industry Regulatory environment Privacy and security in healthcare Information governance Risk assessment and management

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.

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 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 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

Security Science

CISSP: Certified Information Systems Security Professional Study Guide

Guidelines for Effective Information Security Management

Managing Information Security Risks

Practical Information Security Management

Updated annually, the Information Security Management Handbook, Sixth Edition, Volume 6 is the most comprehensive and up-to-date reference available on information security and assurance. Bringing together the knowledge, skills, techniques, and tools required of IT security professionals, it facilitates the up-to-date understanding required to stay one step ahead of evolving threats, standards, and regulations. Reporting on the latest developments in information security and recent changes to the (ISC)2® CISSP Common Body of Knowledge (CBK®), this volume features new information on advanced persistent threats, HIPAA requirements,

social networks, virtualization, and SOA. Its comprehensive coverage touches on all the key areas IT security professionals need to know, including: Access Control: Technologies and administration including the requirements of current laws Telecommunications and Network Security: Addressing the Internet, intranet, and extranet Information Security and Risk Management: Organizational culture, preparing for a security audit, and the risks of social media Application Security: Ever-present malware threats and building security into the development process Security Architecture and Design: Principles of design including zones of trust Cryptography: Elliptic curve cryptosystems, format-preserving encryption Operations Security: Event analysis Business Continuity and Disaster Recovery Planning: Business continuity in the cloud Legal, Regulations, Compliance, and Investigation: Persistent threats and incident response in the virtual realm Physical Security: Essential aspects of physical security The ubiquitous nature of computers and networks will always provide the opportunity and means to do harm. This edition updates its popular predecessors with the information you need to address the vulnerabilities created by recent innovations such as cloud computing, mobile banking, digital wallets, and near-field communications. This handbook is also available on CD.

Whether you're searching for new or additional opportunities, information security can be vast and overwhelming. In this practical guide, author Christina Morillo introduces technical knowledge from a diverse range of experts in the infosec field. Through 97 concise and useful tips, you'll learn how to expand your skills and solve common issues by working through everyday security problems. You'll also receive valuable guidance from professionals on how to navigate your career within this industry. How do you get buy-in from the C-suite for your security program? How do you establish an incident and disaster response plan? This practical book takes you through actionable advice on a wide variety of infosec topics, including thought-provoking questions that drive the direction of the field. Continuously Learn to Protect Tomorrow's Technology - Alyssa Columbus Fight in Cyber Like the Military Fights in the Physical - Andrew Harris Keep People at the Center of Your Work - Camille Stewart Infosec Professionals Need to Know Operational Resilience - Ann Johnson Taking Control of Your Own Journey - Antoine Middleton Security, Privacy, and Messy Data Webs: Taking Back Control in Third-Party Environments - Ben Brook Every Information Security Problem Boils Down to One Thing - Ben Smith Focus on the WHAT and the Why First, Not the Tool - Christina Morillo

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 second edition includes the security of cloud-based resources and the contents have been revised to reflect the changes to the BCS Certification in Information Security Management Principles which the book supports.

Security Science integrates the multi-disciplined practice areas of security into a single structured body of knowledge, where each chapter takes an evidence-based approach to one of the core knowledge categories. The authors give practitioners and students the underlying scientific perspective based on robust underlying theories, principles, models or frameworks. Demonstrating the relationships and underlying concepts, they present an approach to each core security function within the context of both organizational security and homeland security. The book is unique in its application of the scientific method to the increasingly challenging tasks of preventing crime and foiling terrorist attacks. Incorporating the latest security theories and principles, it considers security from both a national and corporate perspective, applied at a strategic and tactical level. It provides a rational basis for complex decisions and begins the process of defining the emerging discipline of security science. A fresh and provocative approach to the key facets of security Presentation of theories and models for a reasoned approach to decision making Strategic and tactical support for corporate leaders handling security challenges Methodologies for protecting national assets in government and private sectors Exploration of security's emerging body of knowledge across domains

Principles of Information Security

Understanding the Fundamentals of InfoSec in Theory and Practice

Building an Effective Security Program for Distributed Energy Resources and Systems

Healthcare Information Security and Privacy

Demand for individuals with cybersecurity skills is high, with 83,000 current jobs in the workplace with an expected growth rate of over 30 percent in the coming years. Principles of Cybersecurity is an exciting, full-color, and highly illustrated learning resource that prepares you with skills needed in the field of cybersecurity. By studying this text, you will learn about security threats and vulnerabilities. The textbook begins with an introduction to the field of cybersecurity and the fundamentals of security. From there, it covers how to manage user security, control the physical environment, and protect host systems. Nontraditional hosts are also covered, as is network infrastructure, services, wireless network security, and web and cloud security. Penetration testing is discussed along with risk management, disaster recover, and incident response. Information is also provided to prepare you for industry-recognized certification. By studying Principles of Cybersecurity, you will learn about the knowledge needed for an exciting career in the field of cybersecurity. You will also learn employability skills and how to be an effective contributor in the workplace.

With the dramatic increase in computer interconnectivity & the popularity of the Internet, the ultimate success of many of these efforts depends on an organization's ability to protect the integrity, privacy, & availability of data & systems. The information must be readily available with few disruptions in the operation of computer & telecommunications systems. While many factors

contribute to information security deficiencies at federal agencies, the problem is that senior officials have not established a framework for reducing security risks associated with their operations. This report studies organizations that have superior security programs to identify practices that could be adopted by federal agencies.

This book explores fundamental principles for securing IT systems and illustrates them with hands-on experiments that may be carried out by the reader using accompanying software. The experiments highlight key information security problems that arise in modern operating systems, networks, and web applications. The authors explain how to identify and exploit such problems and they show different countermeasures and their implementation. The reader thus gains a detailed understanding of how vulnerabilities arise and practical experience tackling them. After presenting the basics of security principles, virtual environments, and network services, the authors explain the core security principles of authentication and access control, logging and log analysis, web application security, certificates and public-key cryptography, and risk management. The book concludes with appendices on the design of related courses, report templates, and the basics of Linux as needed for the assignments. The authors have successfully taught IT security to students and professionals using the content of this book and the laboratory setting it describes. The book can be used in undergraduate or graduate laboratory courses, complementing more theoretically oriented courses, and it can also be used for self-study by IT professionals who want hands-on experience in applied information security. The authors' supporting software is freely available online and the text is supported throughout with exercises.

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 second edition includes the security of cloud-based resources and the contents have been revised to reflect the changes to the BCS Certification in Information Security Management Principles which the book supports.

Information Security Policies, Procedures, and Standards

The CIO's Guide to Information Security Incident Management

The OCTAVE Approach

Computers at Risk

Information Security Management

Now updated—your expert guide to twenty-first century information security Information security is a rapidly evolving field. As businesses and consumers become increasingly dependent on complex multinational information systems, it is more imperative than ever to protect the confidentiality and integrity of data. Featuring a wide array of new information on the most current security issues, this fully updated and revised edition of Information Security:

Principles and Practice provides the skills and knowledge readers need to tackle any information security challenge. Taking a practical approach to information security by focusing on real-world examples, this book is organized around four major themes: Cryptography: classic cryptosystems, symmetric key cryptography, public key cryptography, hash functions, random numbers, information hiding, and cryptanalysis Access control: authentication and authorization, password-based security, ACLs and capabilities, multilevel security and compartments, covert channels and inference control, security models such as BLP and Biba's model, firewalls, and intrusion detection systems Protocols: simple authentication protocols, session keys, perfect forward secrecy, timestamps, SSH, SSL, IPSec, Kerberos, WEP, and GSM Software: flaws and malware, buffer overflows, viruses and worms, malware detection, software reverse engineering, digital rights management, secure software development, and operating systems security This Second Edition features new discussions of relevant security topics such as the SSH and WEP protocols, practical RSA timing attacks, botnets, and security certification. New background material has been added, including a section on the Enigma cipher and coverage of the classic "orange book" view of security. Also featured are a greatly expanded and upgraded set of homework problems and many new figures, tables, and graphs to illustrate and clarify complex topics and problems. A comprehensive solutions manual is available to assist in course development. Minimizing theory while providing clear, accessible content, Information Security remains the premier text for students and instructors in information technology, computer science, and engineering, as well as for professionals working in these fields.

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 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 aspects of information security Provides a broad view of the information security

field in a concise manner All-new Second Edition updated for the latest information security trends and threats, including material on incident response, social engineering, security awareness, risk management, and legal/regulatory issues

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: 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 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.

Toward a Sociology of Algorithms

Management of Information Security, Loose-Leaf Version

Developing Cybersecurity Programs and Policies

Machine Habitus

Principles and Practice of Information Security

Information Security Management PrinciplesBCS, The Chartered Institute for IT

"This textbook provides an overview of information and cybersecurity and offers a summary of security topics that are addressed in more detail in the ISSA series. The text begins with foundational materials that cover the broad spectrum of information technology management. The text then focuses on specific aspects of information security design, development, control, and governance. Finally, we delve into advanced research and development topics such as emerging threats, and what we are doing in the R&D field to try to address them"-- 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 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.

This text provides students with a set of industry focused readings and cases illustrating real-world issues in information security.

The Theory and Practice of Security

Information Security

Principles of Cybersecurity

97 Things Every Information Security Professional Should Know

Information Security Management Handbook, Sixth Edition

Building an Effective Security Program for Distributed Energy Resources and Systems Build a critical and

effective security program for DERs Building an Effective Security Program for Distributed Energy Resources and Systems requires a unified approach to establishing a critical security program for DER systems and Smart Grid applications. The methodology provided integrates systems security engineering principles, techniques, standards, and best practices. This publication introduces engineers on the design, implementation, and maintenance of a security program for distributed energy resources (DERs), smart grid, and industrial control systems. It provides security professionals with understanding the specific requirements of industrial control systems and real-time constrained applications for power systems. This book: Describes the cybersecurity needs for DERs and power grid as critical infrastructure Introduces the information security principles to assess and manage the security and privacy risks of the emerging Smart Grid technologies Outlines the functions of the security program as well as the scope and differences between traditional IT system security requirements and those required for industrial control systems such as SCADA systems Offers a full array of resources—cybersecurity concepts, frameworks, and emerging trends Security Professionals and Engineers can use Building an Effective Security Program for Distributed Energy Resources and Systems as a reliable resource that is dedicated to the essential topic of security for distributed energy resources and power grids. They will find standards, guidelines, and recommendations from standards organizations, such as ISO, IEC, NIST, IEEE, ENISA, ISA, ISACA, and ISF, conveniently included for reference within chapters.

We commonly think of society as made of and by humans, but with the proliferation of machine learning and AI technologies, this is clearly no longer the case. Billions of automated systems tacitly contribute to the social construction of reality by drawing algorithmic distinctions between the visible and the invisible, the relevant and the irrelevant, the likely and the unlikely – on and beyond platforms. Drawing on the work of Pierre Bourdieu, this book develops an original sociology of algorithms as social agents, actively participating in social life. Through a wide range of examples, Massimo Airoidi shows how society shapes algorithmic code, and how this culture in the code guides the practical behaviour of the code in the culture, shaping society in turn. The ‘machine habitus’ is the generative mechanism at work throughout myriads of feedback loops linking humans with artificial social agents, in the context of digital infrastructures and pre-digital social structures. Machine Habitus will be of great interest to students and scholars in sociology, media and cultural studies, science and technology studies and information technology, and to anyone interested in the growing role of algorithms and AI in our social and cultural life.

The cost and frequency of cybersecurity incidents are on the rise, is your enterprise keeping pace? The

numbers of threats, risk scenarios and vulnerabilities have grown exponentially. Cybersecurity has evolved as a new field of interest, gaining political and societal attention. Given this magnitude, the future tasks and responsibilities associated with cybersecurity will be essential to organizational survival and profitability. This publication applies the COBIT 5 framework and its component publications to transforming cybersecurity in a systemic way. First, the impacts of cybercrime and cyberwarfare on business and society are illustrated and put in context. This section shows the rise in cost and frequency of security incidents, including APT attacks and other threats with a critical impact and high intensity. Second, the transformation addresses security governance, security management and security assurance. In accordance with the lens concept within COBIT 5, these sections cover all elements of the systemic transformation and cybersecurity improvements.

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 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.

Readings and Cases in the Management of Information Security

Management of Information Security

Transforming Cybersecurity: Using COBIT 5

Principles and Practices

Information Security Management Principles

By definition, information security exists to protect your organization's valuable information resources. But too often information security efforts are viewed as thwarting business objectives. An effective information security program preserves your information assets and helps you meet business objectives. Information Security Policies, Procedure

Written for people who manage information security risks for their organizations, this book details a security risk evaluation approach called "OCTAVE." The book provides a framework for systematically evaluating and managing security risks, illustrates the implementation of self-directed evaluations, and shows how to tailor evaluation methods to the needs of specific organizations. A running example illustrates key concepts and techniques. Evaluation worksheets and a catalog of best practices are included. The authors are on the technical staff of the Software Engineering Institute. Annotation copyrighted by Book News, Inc., Portland, OR

Create appropriate, security-focused business propositions that consider the balance between cost, risk, and usability, while starting your journey to become an information security manager. Covering a wealth of information that explains exactly how the industry works today, this book focuses on how you can set up an effective information security practice, hire the right people, and strike the best balance between security controls, costs, and risks. Practical Information Security Management provides a wealth of practical advice for anyone responsible for information security management in the workplace, focusing on the 'how' rather than the 'what'. Together we'll cut through the policies, regulations, and standards to expose the real inner workings of what makes a security management program effective, covering the full gamut of subject matter pertaining to security management: organizational structures, security architectures, technical controls, governance frameworks, and operational security. This book was not written to help you pass your CISSP, CISM, or CISMP or become a PCI-DSS auditor. It won't help you build an ISO 27001 or COBIT-compliant security management system, and it won't help you become an ethical hacker or digital forensics investigator - there are many excellent books on the market that cover these subjects in detail. Instead, this is a practical book that offers years of real-world experience in helping you focus on the getting the job done. What You Will Learn

Learn the practical aspects of being an effective information security manager Strike the right balance between cost and risk Take security policies and standards and make them work in reality Leverage complex security functions, such as Digital Forensics, Incident Response and Security Architecture Who This Book Is For"

Anyone who wants to make a difference in offering effective security management for their business. You might already be a security manager seeking insight into areas of the job that you've not looked at before, or you might be a techie or risk guy wanting to switch into this challenging new career. Whatever your career goals are, Practical Security Management has something to offer you.

Updated annually, the Information Security Management Handbook, Sixth Edition, Volume 7 is the most comprehensive and up-to-date reference available on information security and assurance. Bringing together the knowledge, skills, techniques, and tools required of IT security professionals, it facilitates the up-to-date understanding required to stay one step ahead of evolving threats, standards, and regulations. Reporting on the latest developments in information security and recent changes to the (ISC)2® CISSP Common Body of Knowledge (CBK®), this volume features 27 new chapters on topics such as BYOD, IT consumerization, smart grids, security, and privacy. Covers the fundamental knowledge, skills, techniques, and tools required by IT

security professionals Updates its bestselling predecessors with new developments in information security and the (ISC)2® CISSP® CBK® Provides valuable insights from leaders in the field on the theory and practice of computer security technology Facilitates the comprehensive and up-to-date understanding you need to stay fully informed The ubiquitous nature of computers and networks will always provide the opportunity and means to do harm. This edition updates its popular predecessors with the information you need to address the vulnerabilities created by recent innovations such as cloud computing, mobile banking, digital wallets, and near-field communications. This handbook is also available on CD.

Safe Computing in the Information Age

The Basics of Information Security

Computer and Cyber Security

An ISEB Certificate

A Hands-on Approach

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. This second edition includes the security of cloud-based resources."

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 book provides professionals with the necessary managerial, technical, and legal background to support investment decisions in security technology. It discusses security from the perspective of hackers (i.e., technology issues and defenses) and lawyers (i.e., legal issues and defenses). This cross-disciplinary book is designed to help users quickly become current on what has become a fundamental business issue. This book covers the entire range of best security practices—obtaining senior management commitment, defining information security goals and policies, transforming those goals into a strategy for monitoring intrusions and compliance, and understanding legal implications. Topics also include computer crime, electronic evidence, cyber terrorism, and computer forensics. For professionals in information systems, financial accounting, human resources, health care, legal policy, and law. Because neither technical nor legal expertise is necessary to understand the concepts and issues presented, this book can be required reading for everyone as part of an enterprise-wide computer security awareness

program.

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