

Management Of Information Security 3rd Edition

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Handbook of System Safety and Security - Edward Griffor 2016-10-02
Handbook of System Safety and Security: Cyber Risk and Risk Management, Cyber Security, Adversary Modeling, Threat Analysis, Business of Safety, Functional Safety, Software Systems, and Cyber Physical Systems presents an update on the world's increasing adoption of computer-enabled products and the essential services they provide to our daily lives. The tailoring of these products and services to our personal preferences is expected and made possible by intelligence that is enabled by communication between them. Ensuring that the systems of these connected products operate safely, without creating hazards to us and those around us, is the focus of this book, which presents the central topics of current research and practice in systems safety and security as it relates to applications within transportation, energy, and the medical sciences. Each chapter is authored by one of the leading contributors to the current research and development on the topic. The perspective of this book is unique, as it takes the two topics, systems safety and systems security, as inextricably intertwined. Each is driven by concern about the hazards associated with a system's performance. Presents the most current and leading edge research on system safety and security, featuring a panel of top experts in the field Includes several research advancements published for the first time, including the use of 'goal structured notation' together with a 'judgment calculus' and their

automation as a 'rule set' to facilitate systems safety and systems security process execution in compliance with existing standards Presents for the first time the latest research in the field with the unique perspective that systems safety and systems security are inextricably intertwined Includes coverage of systems architecture, cyber physical systems, tradeoffs between safety, security, and performance, as well as the current methodologies and technologies and implantation practices for system safety and security

Information Security Management Principles - Andy Taylor 2013
In todayOCO'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."

Professional Security Management - Charles Swanson 2020-06-30
Historically, security managers have tended to be sourced from either the armed forces or law enforcement. But the increasing complexity of the organisations employing them, along with the technologies employed by them, is forcing an evolution and expansion of the role, and security managers must meet this challenge in order to succeed in their field and protect the assets of their employers. Risk management, crisis

management, continuity management, strategic business operations, data security, IT, and business communications all fall under the purview of the security manager. This book is a guide to meeting those challenges, providing the security manager with the essential skill set and knowledge base to meet the challenges faced in contemporary, international, or tech-oriented businesses. It covers the basics of strategy, risk, and technology from the perspective of the security manager, focussing only on the 'need to know'. The reader will benefit from an understanding of how risk management aligns its functional aims with the strategic goals and operations of the organisation. This essential book supports professional vocational accreditation and qualifications, such as the Chartered Security Professional (CSyP) or Certified Protection Professional (CPP), and advises on pathways to higher education qualifications in the fields of security and risk management. It is ideal for any risk manager looking to further their training and development, as well as being complementary for risk and security management programs with a focus on practice.

Management of Information Security, Loose-Leaf Version - Michael E. Whitman 2018-05-09

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.

Information Security Management Handbook, Sixth Edition - Richard O'Hanley 2013-08-29

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.

Access Control and Identity Management - Mike Chapple 2020-10-01 Revised and updated with the latest data from this fast paced field, Access Control, Authentication, and Public Key Infrastructure defines the components of access control, provides a business framework for implementation, and discusses legal requirements that impact access control programs.

Fundamentals of Information Systems Security - David Kim 2016-10-15 Revised and updated with the latest data in the field, Fundamentals of Information Systems Security, Third Edition provides a comprehensive overview of the essential concepts readers must know as they pursue careers in information systems security. The text opens with a discussion of the new risks, threats, and vulnerabilities associated with the

transition to a digital world. Part 2 presents a high level overview of the Security+ Exam and provides students with information as they move toward this certification.

Information Security Management - Michael Workman 2021-10-20
Information Security Management, Second Edition arms students with answers to the most critical questions about the fields of cybersecurity. It provides students with references to more in-depth study in areas where they may need to specialize. The Second Edition covers operations—the job of day-to-day cybersecurity tasks—regulations, compliance, laws and policies, research and development, and the creation of software and cyber defenses for security initiatives. Finally, the text covers advanced R&D involved in strategic aspects of security developments for threats that lay on the horizon.

Principles of Information Security - Michael E. Whitman 2021-07-06
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.

Cyber Security Management - Peter Trim 2016-05-13
Cyber Security Management: A Governance, Risk and Compliance Framework by Peter Trim and Yang-Im Lee has been written for a wide audience. Derived from research, it places security management in a

holistic context and outlines how the strategic marketing approach can be used to underpin cyber security in partnership arrangements. The book is unique because it integrates material that is of a highly specialized nature but which can be interpreted by those with a non-specialist background in the area. Indeed, those with a limited knowledge of cyber security will be able to develop a comprehensive understanding of the subject and will be guided into devising and implementing relevant policy, systems and procedures that make the organization better able to withstand the increasingly sophisticated forms of cyber attack. The book includes a sequence-of-events model; an organizational governance framework; a business continuity management planning framework; a multi-cultural communication model; a cyber security management model and strategic management framework; an integrated governance mechanism; an integrated resilience management model; an integrated management model and system; a communication risk management strategy; and recommendations for counteracting a range of cyber threats. Cyber Security Management: A Governance, Risk and Compliance Framework simplifies complex material and provides a multi-disciplinary perspective and an explanation and interpretation of how managers can manage cyber threats in a pro-active manner and work towards counteracting cyber threats both now and in the future.

Information Security Risk Analysis, Second Edition - Thomas R. Peltier 2005-04-26
The risk management process supports executive decision-making, allowing managers and owners to perform their fiduciary responsibility of protecting the assets of their enterprises. This crucial process should not be a long, drawn-out affair. To be effective, it must be done quickly and efficiently. Information Security Risk Analysis, Second Edition enables CIOs, CSOs, and MIS managers to understand when, why, and how risk assessments and analyses can be conducted effectively. This book discusses the principle of risk management and its three key elements: risk analysis, risk assessment, and vulnerability assessment. It examines the differences between quantitative and qualitative risk

assessment, and details how various types of qualitative risk assessment can be applied to the assessment process. The text offers a thorough discussion of recent changes to FRAAP and the need to develop a pre-screening method for risk assessment and business impact analysis.

Computer and Information Security Handbook - John R. Vacca
2017-06-02

Computer and Information Security Handbook, Third Edition, provides the most current and complete reference on computer security available in one volume. The book offers deep coverage of an extremely wide range of issues in computer and cybersecurity theory, applications, and best practices, offering the latest insights into established and emerging technologies and advancements. With new parts devoted to such current topics as Cloud Security, Cyber-Physical Security, and Critical Infrastructure Security, the book now has 100 chapters written by leading experts in their fields, as well as 12 updated appendices and an expanded glossary. It continues its successful format of offering problem-solving techniques that use real-life case studies, checklists, hands-on exercises, question and answers, and summaries. Chapters new to this edition include such timely topics as Cyber Warfare, Endpoint Security, Ethical Hacking, Internet of Things Security, Nanoscale Networking and Communications Security, Social Engineering, System Forensics, Wireless Sensor Network Security, Verifying User and Host Identity, Detecting System Intrusions, Insider Threats, Security Certification and Standards Implementation, Metadata Forensics, Hard Drive Imaging, Context-Aware Multi-Factor Authentication, Cloud Security, Protecting Virtual Infrastructure, Penetration Testing, and much more. Online chapters can also be found on the book companion website:

<https://www.elsevier.com/books-and-journals/book-companion/9780128038437> Written by leaders in the field Comprehensive and up-to-date coverage of the latest security technologies, issues, and best practices Presents methods for analysis, along with problem-solving techniques for implementing practical solutions

Management of Information Security - Michael E. Whitman 2010
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.

Contemporary Security Management - David Patterson 2017-10-27
Contemporary Security Management, Fourth Edition, identifies and condenses into clear language the principal functions and responsibilities for security professionals in supervisory and managerial positions. Managers will learn to understand the mission of the corporate security department and how the mission intersects with the missions of other departments. The book assists managers with the critical interactions they will have with decision makers at all levels of an organization, keeping them aware of the many corporate rules, business laws, and protocols of the industry in which the corporation operates. Coverage includes the latest trends in ethics, interviewing, liability, and security-related standards. The book provides concise information on understanding budgeting, acquisition of capital equipment, employee performance rating, delegated authority, project management, counseling, and hiring. Productivity, protection of corporate assets, and monitoring of contract services and guard force operations are also detailed, as well as how to build quality relationships with leaders of external organizations, such as police, fire and emergency response agencies, and the Department of Homeland Security. Focuses on the evolving characteristics of major security threats confronting any organization Assists aspirants for senior security positions in matching their personal expertise and interests with particular areas of security management Includes updated information on the latest trends in ethics, interviewing, liability, and security-related standards

Principles of Information Security - Michael E. Whitman 2014-11-26
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.

Implementing an Information Security Management System - Abhishek Chopra 2019-12-09

Discover the simple steps to implementing information security standards using ISO 27001, the most popular information security standard across the world. You'll see how it offers best practices to be followed, including the roles of all the stakeholders at the time of security framework implementation, post-implementation, and during monitoring of the implemented controls. *Implementing an Information Security Management System* provides implementation guidelines for ISO 27001:2013 to protect your information assets and ensure a safer enterprise environment. This book is a step-by-step guide on implementing secure ISMS for your organization. It will change the way you interpret and implement information security in your work area or organization. What You Will Learn Discover information safeguard methods Implement end-to-end information security Manage risk associated with information security Prepare for audit with associated roles and responsibilities Identify your information risk Protect your information assets Who This Book Is For Security professionals who implement and manage a security framework or security controls within their organization. This book can also be used by developers with a basic knowledge of security concepts to gain a strong understanding of security standards for an enterprise.

Management of Information Security - Michael E. Whitman 2016-03-22
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.

Management of Information Security - Michael E. Whitman 2010-01-19

Management of Information Security, Third Edition focuses on the managerial aspects of information security and assurance. Topics covered include access control models, information security governance, and information security program assessment and metrics. Coverage on the foundational and technical components of information security is included to reinforce key concepts. This new edition includes up-to-date information on changes in the field such as revised sections on national and international laws and international standards like the ISO 27000 series. With these updates, *Management of Information Security* continues to offer a unique overview of information security from a management perspective while maintaining a finger on the pulse of industry changes and academic relevance. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Legal Issues in Information Security - Grama 2014-08-12
Part of the Jones & Bartlett Learning Information Systems Security and

Assurance Series <http://www.issaseries.com> Revised and updated to address the many changes in this evolving field, the Second Edition of *Legal Issues in Information Security (Textbook with Lab Manual)* addresses the area where law and information security concerns intersect. Information systems security and legal compliance are now required to protect critical governmental and corporate infrastructure, intellectual property created by individuals and organizations alike, and information that individuals believe should be protected from unreasonable intrusion. Organizations must build numerous information security and privacy responses into their daily operations to protect the business itself, fully meet legal requirements, and to meet the expectations of employees and customers. Instructor Materials for *Legal Issues in Information Security* include: PowerPoint Lecture Slides Instructor's Guide Sample Course Syllabus Quiz & Exam Questions Case Scenarios/Handouts New to the Second Edition: • Includes discussions of amendments in several relevant federal and state laws and regulations since 2011 • Reviews relevant court decisions that have come to light since the publication of the first edition • Includes numerous information security data breaches highlighting new vulnerabilities
Information Security and IT Risk Management - Manish Agrawal
2014-04-21

This new text provides students the knowledge and skills they will need to compete for and succeed in the information security roles they will encounter straight out of college. This is accomplished by providing a hands-on immersion in essential system administration, service and application installation and configuration, security tool use, TIG implementation and reporting. It is designed for an introductory course on IS Security offered usually as an elective in IS departments in 2 and 4 year schools. It is not designed for security certification courses.

The Information Systems Security Officer's Guide - Gerald L. Kovacich 2016-01-12

The Information Systems Security Officer's Guide: Establishing and Managing a Cyber Security Program, Third Edition, provides users with information on how to combat the ever-changing myriad of threats

security professionals face. This entirely updated edition presents practical advice on establishing, managing, and evaluating a successful information protection program in a corporation or government agency, covering everything from effective communication to career guidance for the information security officer. The book outlines how to implement a new plan or evaluate an existing one, and is especially targeted to those who are new to the topic. It is the definitive resource for learning the key characteristics of an effective information systems security officer (ISSO), and paints a comprehensive portrait of an ISSO's duties, their challenges, and working environments, from handling new technologies and threats, to performing information security duties in a national security environment. Provides updated chapters that reflect the latest technological changes and advances in countering the latest information security threats and risks and how they relate to corporate security and crime investigation Includes new topics, such as forensics labs and information warfare, as well as how to liaison with attorneys, law enforcement, and other agencies others outside the organization Written in an accessible, easy-to-read style

Information Security Management Systems - Heru Susanto 2018-06-14
This new volume, *Information Security Management Systems: A Novel Framework and Software as a Tool for Compliance with Information Security Standard*, looks at information security management system standards, risk management associated with information security, and information security awareness within an organization. The authors aim to improve the overall ability of organizations to participate, forecast, and actively assess their information security circumstances. It is important to note that securing and keeping information from parties who do not have authorization to access such information is an extremely important issue. To address this issue, it is essential for an organization to implement an ISMS standard such as ISO 27001 to address the issue comprehensively. The authors of this new volume have constructed a novel security framework (ISF) and subsequently used this framework to develop software called Integrated Solution Modeling (ISM), a semi-automated system that will greatly help organizations comply with ISO

27001 faster and cheaper than other existing methods. In addition, ISM does not only help organizations to assess their information security compliance with ISO 27001, but it can also be used as a monitoring tool, helping organizations monitor the security statuses of their information resources as well as monitor potential threats. ISM is developed to provide solutions to solve obstacles, difficulties, and expected challenges associated with literacy and governance of ISO 27001. It also functions to assess the RISC level of organizations towards compliance with ISO 27001. The information provide here will act as blueprints for managing information security within business organizations. It will allow users to compare and benchmark their own processes and practices against these results shown and come up with new, critical insights to aid them in information security standard (ISO 27001) adoption.

Information Security Handbook - Darren Death 2017-12-08

Implement information security effectively as per your organization's needs. About This Book Learn to build your own information security framework, the best fit for your organization Build on the concepts of threat modeling, incidence response, and security analysis Practical use cases and best practices for information security Who This Book Is For This book is for security analysts and professionals who deal with security mechanisms in an organization. If you are looking for an end to end guide on information security and risk analysis with no prior knowledge of this domain, then this book is for you. What You Will Learn Develop your own information security framework Build your incident response mechanism Discover cloud security considerations Get to know the system development life cycle Get your security operation center up and running Know the various security testing types Balance security as per your business needs Implement information security best practices In Detail Having an information security mechanism is one of the most crucial factors for any organization. Important assets of organization demand a proper risk management and threat model for security, and so information security concepts are gaining a lot of traction. This book starts with the concept of information security and shows you why it's important. It then moves on to modules such as threat modeling, risk

management, and mitigation. It also covers the concepts of incident response systems, information rights management, and more. Moving on, it guides you to build your own information security framework as the best fit for your organization. Toward the end, you'll discover some best practices that can be implemented to make your security framework strong. By the end of this book, you will be well-versed with all the factors involved in information security, which will help you build a security framework that is a perfect fit your organization's requirements. Style and approach This book takes a practical approach, walking you through information security fundamentals, along with information security best practices.

Computer Security - ESORICS 94 - Dieter Gollmann 1994-10-19

This volume constitutes the proceedings of the Third European Symposium on Research in Computer Security, held in Brighton, UK in November 1994. The 26 papers presented in the book in revised versions were carefully selected from a total of 79 submissions; they cover many current aspects of computer security research and advanced applications. The papers are grouped in sections on high security assurance software, key management, authentication, digital payment, distributed systems, access control, databases, and measures.

Information Security Risk Management for ISO27001/ISO27002 - Alan Calder 2010-04-27

Drawing on international best practice, including ISO/IEC 27005, NIST SP800-30 and BS7799-3, the book explains in practical detail how to carry out an information security risk assessment. It covers key topics, such as risk scales, threats and vulnerabilities, selection of controls, and roles and responsibilities, and includes advice on choosing risk assessment software.

Information Security Science - Carl Young 2016-06-23

Information Security Science: Measuring the Vulnerability to Data Compromises provides the scientific background and analytic techniques to understand and measure the risk associated with information security threats. This is not a traditional IT security book since it includes methods of information compromise that are not typically addressed in

textbooks or journals. In particular, it explores the physical nature of information security risk, and in so doing exposes subtle, yet revealing, connections between information security, physical security, information technology, and information theory. This book is also a practical risk management guide, as it explains the fundamental scientific principles that are directly relevant to information security, specifies a structured methodology to evaluate a host of threats and attack vectors, identifies unique metrics that point to root causes of technology risk, and enables estimates of the effectiveness of risk mitigation. This book is the definitive reference for scientists and engineers with no background in security, and is ideal for security analysts and practitioners who lack scientific training. Importantly, it provides security professionals with the tools to prioritize information security controls and thereby develop cost-effective risk management strategies. Specifies the analytic and scientific methods necessary to estimate the vulnerability to information loss for a spectrum of threats and attack vectors Represents a unique treatment of the nexus between physical and information security that includes risk analyses of IT device emanations, visible information, audible information, physical information assets, and virtualized IT environments Identifies metrics that point to the root cause of information technology risk and thereby assist security professionals in developing risk management strategies Analyzes numerous threat scenarios and specifies countermeasures based on derived quantitative metrics Provides chapter introductions and end-of-chapter summaries to enhance the reader's experience and facilitate an appreciation for key concepts

Readings & Cases in Information Security: Law & Ethics - Michael E. Whitman 2010-06-23

Readings and Cases in Information Security: Law and Ethics provides a depth of content and analytical viewpoint not found in many other books. Designed for use with any Cengage Learning security text, this resource offers readers a real-life view of information security management, including the ethical and legal issues associated with various on-the-job experiences. Included are a wide selection of foundational readings and scenarios from a variety of experts to give the reader the most realistic

perspective of a career in information security. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Information Security Risk Management for ISO 27001/ISO 27002, third edition - Alan Calder 2019-08-29

Ideal for risk managers, information security managers, lead implementers, compliance managers and consultants, as well as providing useful background material for auditors, this book will enable readers to develop an ISO 27001-compliant risk assessment framework for their organisation and deliver real, bottom-line business benefits.

Security Operations Management - Robert McCrie 2011-03-31

The second edition of *Security Operations Management* continues as the seminal reference on corporate security management operations.

Revised and updated, topics covered in depth include: access control, selling the security budget upgrades to senior management, the evolution of security standards since 9/11, designing buildings to be safer from terrorism, improving relations between the public and private sectors, enhancing security measures during acute emergencies, and, finally, the increased security issues surrounding the threats of terrorism and cybercrime. An ideal reference for the professional, as well as a valuable teaching tool for the security student, the book includes discussion questions and a glossary of common security terms.

Additionally, a brand new appendix contains contact information for academic, trade, and professional security organizations. * Fresh coverage of both the business and technical sides of security for the current corporate environment * Strategies for outsourcing security services and systems * Brand new appendix with contact information for trade, professional, and academic security organizations

Elementary Information Security - Richard E. Smith 2013

Comprehensive and accessible, *Elementary Information Security* covers the entire range of topics required for US government courseware certification NSTISSI 4013 and urges students analyze a variety of security problems while gaining experience with basic tools of the trade. Written for the one-term undergraduate course, the text emphasises both

the technical and non-technical aspects of information security and uses practical examples and real-world assessment tools. Early chapters in the text discuss individual computers and small LANS, while later chapters deal with distributed site security and the Internet. Cryptographic topics follow the same progression, starting on a single computer and evolving to Internet-level connectivity. Mathematical concepts throughout the text are defined and tutorials with mathematical tools are provided to ensure students grasp the information at hand. Rather than emphasizing memorization, this text challenges students to learn how to analyze a variety of security problems and gain experience with the basic tools of this growing trade. Key Features:- Covers all topics required by the US government curriculum standard NSTISSI 4013.- Unlike other texts on the topic, the author goes beyond defining the math concepts and provides students with tutorials and practice with mathematical tools, making the text appropriate for a broad range of readers.- Problem Definitions describe a practical situation that includes a security dilemma.- Technology Introductions provide a practical explanation of security technology to be used in the specific chapters- Implementation Examples show the technology being used to enforce the security policy at hand- Residual Risks describe the limitations to the technology and illustrate various tasks against it.- Each chapter includes worked examples of techniques students will need to be successful in the course. For instance, there will be numerous examples of how to calculate the number of attempts needed to crack secret information in particular formats; PINs, passwords and encryption keys.

Information Security Management Principles - Andy Taylor 2019-10-31
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.

Practical Information Security Management - Tony Campbell

2016-11-29

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 CISM 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"/div>div 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.

The Basics of Information Security - Jason Andress 2014-05-20

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

Security Risk Management - Evan Wheeler 2011-04-20

Security Risk Management is the definitive guide for building or running an information security risk management program. This book teaches practical techniques that will be used on a daily basis, while also explaining the fundamentals so students understand the rationale behind these practices. It explains how to perform risk assessments for new IT projects, how to efficiently manage daily risk activities, and how to qualify the current risk level for presentation to executive level management. While other books focus entirely on risk analysis methods, this is the first comprehensive text for managing security risks. This book will help you to break free from the so-called best practices argument by articulating risk exposures in business terms. It includes case studies to provide hands-on experience using risk assessment tools to calculate the costs and benefits of any security investment. It explores each phase of the risk management lifecycle, focusing on policies and assessment processes that should be used to properly assess and mitigate risk. It

also presents a roadmap for designing and implementing a security risk management program. This book will be a valuable resource for CISOs, security managers, IT managers, security consultants, IT auditors, security analysts, and students enrolled in information security/assurance college programs. Named a 2011 Best Governance and ISMS Book by InfoSec Reviews Includes case studies to provide hands-on experience using risk assessment tools to calculate the costs and benefits of any security investment Explores each phase of the risk management lifecycle, focusing on policies and assessment processes that should be used to properly assess and mitigate risk Presents a roadmap for designing and implementing a security risk management program

The InfoSec Handbook - Umesha Nayak 2014-09-17

The InfoSec Handbook offers the reader an organized layout of information that is easily read and understood. Allowing beginners to enter the field and understand the key concepts and ideas, while still keeping the experienced readers updated on topics and concepts. It is intended mainly for beginners to the field of information security, written in a way that makes it easy for them to understand the detailed content of the book. The book offers a practical and simple view of the security practices while still offering somewhat technical and detailed information relating to security. It helps the reader build a strong foundation of information, allowing them to move forward from the book with a larger knowledge base. Security is a constantly growing concern that everyone must deal with. Whether it's an average computer user or a highly skilled computer user, they are always confronted with different security risks. These risks range in danger and should always be dealt with accordingly. Unfortunately, not everyone is aware of the dangers or how to prevent them and this is where most of the issues arise in information technology (IT). When computer users do not take security into account many issues can arise from that like system compromises or loss of data and information. This is an obvious issue that is present with all computer users. This book is intended to educate the average and experienced user of what kinds of different security practices and

standards exist. It will also cover how to manage security software and updates in order to be as protected as possible from all of the threats that they face.

Fundamentals of Information Systems Security - David Kim 2013-07-11
PART OF THE JONES & BARTLETT LEARNING INFORMATION SYSTEMS SECURITY & ASSURANCE SERIES Revised and updated with the latest information from this fast-paced field, *Fundamentals of Information System Security, Second Edition* provides a comprehensive overview of the essential concepts readers must know as they pursue careers in information systems security. The text opens with a discussion of the new risks, threats, and vulnerabilities associated with the transformation to a digital world, including a look at how business, government, and individuals operate today. Part 2 is adapted from the Official (ISC)2 SSCP Certified Body of Knowledge and presents a high-level overview of each of the seven domains within the System Security Certified Practitioner certification. The book closes with a resource for readers who desire additional material on information security standards, education, professional certifications, and compliance laws. With its practical, conversational writing style and step-by-step examples, this text is a must-have resource for those entering the world of information systems security. New to the Second Edition: - New material on cloud computing, risk analysis, IP mobility, OMNIBus, and Agile Software Development. - Includes the most recent updates in Information Systems Security laws, certificates, standards, amendments, and the proposed Federal Information Security Amendments Act of 2013 and HITECH Act. - Provides new cases and examples pulled from real-world scenarios. - Updated data, tables, and sidebars provide the most current information in the field.

NETWORK SECURITY AND MANAGEMENT - BRIJENDRA SINGH
2011-12-24

Written in an easy-to-understand style, this textbook, now in its third edition, continues to discuss in detail important concepts and major developments in network security and management. It is designed for a one-semester course for undergraduate students of Computer Science,

Information Technology, and undergraduate and postgraduate students of Computer Applications. Students are first exposed to network security principles, organizational policy and security infrastructure, and then drawn into some of the deeper issues of cryptographic algorithms and protocols underlying network security applications. Encryption methods, secret key and public key cryptography, digital signature and other security mechanisms are emphasized. Smart card, biometrics, virtual private networks, trusted operating systems, pretty good privacy, database security, and intrusion detection systems are comprehensively covered. An in-depth analysis of technical issues involved in security management, risk management and security and law is presented. In the third edition, two new chapters—one on Information Systems Security and the other on Web Security—and many new sections such as digital signature, Kerberos, public key infrastructure, software security and electronic mail security have been included. Additional matter has also been added in many existing sections. KEY FEATURES : Extensive use of block diagrams throughout helps explain and clarify the concepts discussed. About 250 questions and answers at the end of the book facilitate fruitful revision of the topics covered. Includes a glossary of important terms. KEY FEATURES : Extensive use of block diagrams throughout helps explain and clarify the concepts discussed. About 250 questions and answers at the end of the book facilitate fruitful revision of the topics covered. Includes a glossary of important terms.

Cyber Security Awareness for CEOs and Management - David Willson
2015-12-09

Cyber Security for CEOs and Management is a concise overview of the security threats posed to organizations and networks by the ubiquity of USB Flash Drives used as storage devices. The book will provide an overview of the cyber threat to you, your business, your livelihood, and discuss what you need to do, especially as CEOs and Management, to lower risk, reduce or eliminate liability, and protect reputation all related to information security, data protection and data breaches. The purpose of this book is to discuss the risk and threats to company information, customer information, as well as the company itself; how to lower the

risk of a breach, reduce the associated liability, react quickly, protect customer information and the company's reputation, as well as discuss your ethical, fiduciary and legal obligations. Presents most current threats posed to CEOs and Management teams. Offer detection and defense techniques

Information Security - Mark Stamp 2005-11-11

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.

Risk Management for Computer Security - Andy Jones 2005-03-29

The information systems security (InfoSec) profession remains one of the fastest growing professions in the world today. With the advent of the Internet and its use as a method of conducting business, even more emphasis is being placed on InfoSec. However, there is an expanded field of threats that must be addressed by today's InfoSec and information assurance (IA) professionals. Operating within a global business environment with elements of a virtual workforce can create problems not experienced in the past. How do you assess the risk to the organization when information can be accessed, remotely, by employees in the field or while they are traveling internationally? How do you assess the risk to employees who are not working on company premises and are often thousands of miles from the office? How do you assess the risk to your organization and its assets when you have offices or facilities in a nation whose government may be supporting the theft of the corporate "crown jewels" in order to assist their own nationally owned or supported corporations? If your risk assessment and management program is to be effective, then these issues must be assessed. Personnel involved in the risk assessment and management process face a much more complex environment today than they have ever encountered before. This book covers more than just the fundamental elements that make up a good risk program. It provides an integrated "how to" approach to implementing a corporate program, complete with tested methods and processes; flowcharts; and checklists that can be used by the reader and immediately implemented into a computer and overall corporate security program. The challenges are many and this book will help professionals in meeting their challenges as we progress through the 21st Century. *Presents material in an engaging, easy-to-follow manner that will appeal to both advanced INFOSEC career professionals and network administrators entering the information security profession *Addresses the needs of both the individuals who are new to the subject as well as of experienced professionals *Provides insight into the factors that need to

be considered & fully explains the numerous methods, processes &

procedures of risk management