Industrial Security Management 1st Edition Reprint

RILEY DILLON

Research on Industrial Security Theory Springer Nature Your one-step guide to understanding industrial cyber security, its control systems, and its operations. About This Book Learn about endpoint protection such as anti-malware implementation, updating, monitoring, and sanitizing user workloads and mobile devices Filled with practical examples to help you secure critical infrastructure systems efficiently A step-by-step guide that will teach you the techniques and methodologies of building robust infrastructure systems Who This Book Is For If you are a security professional and want to ensure a robust environment for critical infrastructure systems, this book is for you. IT professionals interested in getting into the cyber security domain or who are looking at gaining industrial cyber security certifications will also find this book useful. What You Will Learn Understand industrial cybersecurity, its control systems and operations Design security-oriented architectures, network segmentation, and security support services Configure event monitoring systems, anti-malware applications, and endpoint security Gain knowledge of ICS risks, threat detection, and access management Learn about patch management and life cycle management Secure your industrial control systems from design through retirement In Detail With industries expanding, cyber attacks have increased significantly. Understanding your control system's vulnerabilities and learning techniques to defend critical infrastructure systems from cyber threats is increasingly important. With the help of real-world use cases, this book will teach you the methodologies and security measures necessary to protect critical infrastructure systems and will get you up to speed with identifying unique challenges.Industrial cybersecurity begins by introducing Industrial Control System (ICS) technology, including ICS architectures, communication media, and protocols. This is followed by a presentation on ICS (in) security. After presenting an ICS-related attack scenario, securing of the ICS is discussed, including topics such as network segmentation, defense-in-depth strategies, and protective solutions. Along with practical examples for protecting industrial control systems, this book details security assessments, risk management, and security program development. It also covers essential cybersecurity

aspects, such as threat detection and access management. Topics related to endpoint hardening such as monitoring, updating, and anti-malware implementations are also discussed. Style and approach A step-by-step guide to implement Industrial Cyber Security effectively.

A Guide to a Successful Career Transition CRC Press
IT-SEC protects the information. SEC-OT protects physical, industrial operations from information, more specifically from attacks embedded in information. When the consequences of compromise are unacceptable ? unscheduled downtime, impaired product quality and damaged equipment ? software-based IT-SEC defences are not enough. Secure Operations Technology (SEC-OT) is a perspective, a methodology, and a set of best practices used at secure industrial sites. SEC-OT demands cyber-physical protections - because all software can be compromised. SEC-OT strictly controls the flow of information ? because all information can encode attacks. SEC-OT uses a wide range of attack capabilities to determine the strength of security postures - because nothing is secure. This book documents the Secure Operations Technology approach, including physical offline and online protections against cyber attacks and a set of twenty standard cyber-attack patterns to use in risk assessments.

Physical Security in the Process Industry McGraw-Hill Professional Pub
Managing Risk and Information Security: Protect to Enable, an ApressOpen title, describes the changing risk environment and why a fresh approach to information security is needed. Because almost every aspect of an enterprise is now dependent on technology, the focus of IT security must shift from locking down assets to enabling the business while managing and surviving risk. This compact book discusses business risk from a broader perspective, including privacy and regulatory considerations. It describes the increasing number of threats and vulnerabilities, but also offers strategies for developing solutions. These include discussions of how enterprises can take advantage of new and emerging technologies—such as social media and the huge proliferation of Internet-enabled devices—while minimizing risk. With ApressOpen, content is freely available through multiple online distribution channels and electronic formats with the goal of disseminating professionally edited and technically reviewed content to the worldwide community. Here are some of the responses from reviewers of this exceptional work: “Managing Risk and Information Security is a perceptive, balanced, and often thought-provoking exploration of evolving information risk and security challenges within a business context. Harkins clearly connects the needed, but often-overlooked linkage and dialog between the business and technical worlds and offers actionable strategies. The book contains eye-opening security insights that are easily understood, even by the curious layman.” Fred Wettling, Bechtel Fellow, IS&T Ethics & Compliance Officer, Bechtel “As disruptive technology innovations and escalating cyber threats continue to create enormous information security challenges, Managing Risk and Information Security: Protect to Enable provides a much-needed perspective. This book compels information security professionals to think differently about concepts of risk management in order to be more effective. The specific and practical guidance offers a fast-track formula for developing information security strategies which are lock-step with business priorities.” Laura Robinson, Principal, Robinson Insight Chair, Security for Business Innovation Council (SBIC) Program Director, Executive Security Action Forum (ESAF) “The mandate of the information security function is being completely rewritten. Unfortunately most heads of security haven’t picked up on the change, impeding their companies’ agility and ability to innovate. This book makes the case for why security needs to change, and shows how to get started. It will be regarded as marking the turning point in information security for years to come.” Dr. Jeremy Bergsman, Practice Manager, CEB “The world we are responsible to protect is changing dramatically and at an accelerating pace. Technology is pervasive in virtually every aspect of our lives. Clouds, virtualization and mobile are redefining computing – and they are just the beginning of what is to come. Your security perimeter is defined by wherever your information and people happen to be. We are attacked by professional adversaries who are better funded than we will ever be. We in the information security profession must change as dramatically as the environment we protect. We need new skills and new strategies to do our jobs effectively. We literally need to change the way we think. Written by one of the best in the business, Managing Risk and Information Security challenges traditional security theory with clear examples of the need for change. It also provides expert advice on how to dramatically increase the success of your security strategy and methods – from dealing with the misperception of risk to how to become a Z-shaped CISO. Managing Risk and Information Security is the ultimate treatise on how to deliver effective security to the world we live in for the next 10 years. It is absolute must reading for anyone in our profession – and should be on the desk of every CISO in the world.” Dave Cullinane, CISSP CEO Security Starfish, LLC “In this overview, Malcolm Harkins delivers an insightful survey of the trends, threats, and tactics shaping information risk and security. From regulatory compliance to psychology to the changing threat context, this work provides a compelling introduction to an important topic and trains helpful attention on the effects of changing technology and management practices.” Dr. Mariano-Florentino Cuéllar Professor, Stanford Law School Co-Director, Stanford Center for International Security and Cooperation (CISAC), Stanford University “Malcolm Harkins gets it. In his new book Malcolm outlines the major forces changing the information security risk landscape from a big picture perspective, and then goes on to offer effective methods of managing that risk from a practitioner's viewpoint. The combination makes this book unique and a must read for anyone interested in IT risk." Dennis Devlin AVP, Information Security and Compliance, The George Washington University “Managing Risk and Information Security is the first-to-read, must-read book on information security for C-Suite executives. It is accessible, understandable and actionable. No sky-is-falling scare tactics, no techno-babble – just straight talk about a critically important subject. There is no better primer on the economics, ergonomics and psycho-behaviourals of security than this.” Thornton May, Futurist, Executive Director & Dean, IT Leadership Academy “Managing Risk and Information Security is a wake-up call for information security executives and a ray of light for business leaders. It equips organizations with the knowledge required to transform their security programs from a “culture of no” to one focused on agility, value and competitiveness. Unlike other publications, Malcolm provides clear and immediately applicable solutions to optimally balance the frequently opposing needs of risk reduction and business growth. This book should be required reading for anyone currently serving in, or seeking to achieve, the role of Chief Information Security Officer.” Jamil Farshchi, Senior Business Leader of Strategic Planning and Initiatives, VISA “For too many years, business and security – either real or imagined – were at odds. In Managing Risk and Information Security: Protect to Enable, you get what you expect – real life practical ways to break logjams, have security actually enable business, and marries security architecture and business architecture. Why this book? It's written by a practitioner, and not just any practitioner, one of the leading minds in Security today.”

John Stewart, Chief Security Officer, Cisco “This book is an invaluable guide to help security professionals address risk in new ways in this alarmingly fast changing environment. Packed with examples which makes it a pleasure to read, the book captures practical ways a forward thinking CISO can turn information security into a competitive advantage for their business. This book provides a new framework for managing risk in an entertaining and thought provoking way. This will change the way security professionals work with their business leaders, and help get products to market faster. The 6 irrefutable laws of information security should be on a stone plaque on the desk of every security professional.” Steven Proctor, VP, Audit & Risk Management, Flextronics

Handbook of Research on Information and Cyber Security in the Fourth Industrial Revolution Gulf Professional Publishing

The Smart Grid security ecosystem is complex and multi-disciplinary, and relatively under-researched compared to the traditional information and network security disciplines. While the Smart Grid has provided increased efficiencies in monitoring power usage, directing power supplies to serve peak power needs and improving efficiency of power delivery, the Smart Grid has also opened the way for information security breaches and other types of security breaches. Potential threats range from meter manipulation to directed, high-impact attacks on critical infrastructure that could bring down regional or national power grids. It is essential that security measures are put in place to ensure that the Smart Grid does not succumb to these threats and to safeguard this critical infrastructure at all times. Dr. Florian Skopik is one of the leading researchers in Smart Grid security, having organized and led research consortia and panel discussions in this field. Smart Grid Security will provide the first truly holistic view of leading edge Smart Grid security research. This book does not focus on vendor-specific solutions, instead providing a complete presentation of forward-looking research in all areas of Smart Grid security. The book will enable practitioners to learn about upcoming trends, scientists to share new directions in research, and government and industry decision-makers to prepare for major strategic decisions regarding implementation of Smart Grid technology. Presents the most current and leading edge research on Smart Grid security from a holistic standpoint, featuring a panel of top experts in the field. Includes coverage of risk management, operational security, and secure development of the Smart Grid. Covers key technical topics, including threat types and attack vectors, threat case studies, smart metering, smart home, e- mobility, smart buildings, DERs, demand response management, distribution grid operators, transmission grid operators, virtual power plants, resilient architectures, communications protocols and encryption, as well as physical security.

Corporate Security Management Routledge

A comprehensive and practical guide to security organization and planning in industrial plants Features Basic definitions related to plant security Features Countermeasures and response methods Features Facilities and equipment, and security organization Topics covered are applicable to multiple types of industrial plants Illustrates practical techniques for assessing and evaluating financial and corporate risks

Information Security Management Handbook, Sixth Edition Syngress

This book provides insight into domino effects in industrial chemical sites and process industries. It is about the integration of safety and security resources to prevent and mitigate domino effects in the process industries. It explains how chemical industrial areas, comprised of various hazardous installations, are susceptible to a chain of undesired events, or domino effects, triggered by accidental events or intentional attacks and then presents solutions to prevent them. Firstly, the book provides a dynamic graph approach to model the domino effects induced by accidental fire or intentional fire, considering the spatial-temporal evolution of fires. Then, a dynamic risk assessment method based on a discrete dynamic event tree is proposed to assess the likelihood of VCEs and the vulnerability of installations, addressing the time dependencies in vapor cloud dispersion and the uncertainty of delayed ignitions. A dynamic methodology based on dynamic graphs and Monte Carlo is provided to assess the vulnerability of individuals and installations exposed to multi-hazards, such as fire, explosion and toxic release during escalation events. Based on these domino effect models, an economic approach is developed to integrate safe and security resources, obtaining the most cost–benefit protection strategy for preventing domino effects. Finally, a resilience-based approach is provided to find out the most cost-resilient way to protect chemical industrial areas, addressing possible domino effects. This integrated approach will be of interest to researchers, industrial engineers, chemical engineers and safety managers and will help professionals to new solutions in the area of safety and security.

Industrial Security Management CRC Press

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Viable, value-creating solutions for securing global transportation networks Securing Global Transportation Networks demonstrates how improved security processes can create value across all the business functions throughout an entire value chain. Readers will learn a whole new security management philosophy, as explained through domestic and international examples and case studies ranging from major retailers such as Home Depot to shipping giants such as Maersk and FedEx. This book also looks ahead to future developments and "best practices" for the future. If you're charged with making or evaluating transportation security decisions, you'll find the tools you need to succeed -- and prosper -- with the Total Security Management approach. Explains globalization's impact on transportation networks Creates a framework for realizing a return on security investments by integrating it as a core business process Details how transportation firms, investors, and insurance companies can measure and reward smart security practices that protect a firm's fixed assets, assets in transit, brand equity and goodwill, and human capital INSIDE: Global Trade and Total Security Management The Total Security Management Framework Creating Value: The Case for TSM The Risk Management Approach to TSM Securing Fixed Assets Securing Assets in Transit Securing Brand Equity and Goodwill Securing Human Capital TSM and Business Continuity Planning The End of the Beginning Excellent book, written by three veterans of the industry and featuring a foreword by Tom Ridge, the first Secretary of Homeland Security...the authors develop in the book the concept of Total Security Management, and use compelling case studies to illustrate their point that a secure business is a successful business...The book further demonstrates the financial benefits of investing in security, and also how to protect physical corporate assets, whether they be fixed or goods in transit...this book is a must for anyone working in or around global transportation industries. -- Reviewer: Rob Ballister--Military Writers Society of America Board Member, 9/24/08

The Facility Manager's Guide to Safety and Security National Academies Press

Corporate Security Management provides practical advice on efficiently and effectively protecting an organization's processes,

tangible and intangible assets, and people. The book merges business and security perspectives to help transform this often conflicted relationship into a successful and sustainable partnership. It combines security doctrine, business priorities, and best practices to uniquely answer the Who, What, Where, Why, When and How of corporate security. Corporate Security Management explores the diverse structures of security organizations in different industries. It shows the crucial corporate security competencies needed and demonstrates how they blend with the competencies of the entire organization. This book shows how to identify, understand, evaluate and anticipate the specific risks that threaten enterprises and how to design successful protection strategies against them. It guides readers in developing a systematic approach to assessing, analyzing, planning, quantifying, administrating, and measuring the security function. Addresses the often opposing objectives between the security department and the rest of the business concerning risk, protection, outsourcing, and more Shows security managers how to develop business acumen in a corporate security environment Analyzes the management and communication skills needed for the corporate security manager Focuses on simplicity, logic and creativity instead of security technology Shows the true challenges of performing security in a profit-oriented environment, suggesting ways to successfully overcome them Illustrates the numerous security approaches and requirements in a wide variety of industries Includes case studies, glossary, chapter objectives, discussion questions and exercises

Managing the Risks of Organizational Accidents Elsevier

Major accidents are rare events due to the many barriers, safeguards and defences developed by modern technologies. But they continue to happen with saddening regularity and their human and financial consequences are all too often unacceptably catastrophic. One of the greatest challenges we face is to develop more effective ways of both understanding and limiting their occurrence. This lucid book presents a set of common principles to further our knowledge of the causes of major accidents in a wide variety of high-technology systems. It also describes tools and techniques for managing the risks of such organizational accidents that go beyond those currently available to system managers and safety professionals. James Reason deals comprehensively with the prevention of major accidents arising from human and organizational causes. He argues that the same general principles and management techniques are appropriate for many different domains. These include banks and insurance companies just as much as nuclear power plants, oil exploration and production companies, chemical process installations and air, sea and rail transport. Its unique combination of principles and practicalities make this seminal book essential reading for all whose daily business is to manage, audit and regulate hazardous technologies of all kinds. It is relevant to those concerned with understanding and controlling human and organizational factors and will also interest academic readers and those working in industrial and government agencies.

Computers at Risk Butterworth-Heinemann

Security Metrics Management, Measuring the Effectiveness and Efficiency of a Security Program, Second Edition details the application of quantitative, statistical, and/or mathematical analyses to measure security functional trends and workload, tracking what each function is doing in terms of level of effort (LOE), costs, and productivity. This fully updated guide is the go-to reference for managing an asset protection program and related security functions through the use of metrics. It supports the security professional’s position on budget matters, helping to justify the cost-effectiveness of security-related decisions to senior management and other key decision-makers. The book is designed to provide easy-to-follow guidance, allowing security professionals to confidently measure the costs of their assets protection program - their security program - as well as its successes and failures. It includes a discussion of how to use the metrics to brief management, build budgets, and provide trend analyses to develop a more efficient and effective asset protection program. Examines the latest techniques in both generating and evaluating security metrics, with guidance for creating a new metrics program or improving an existing one Features an easy-to-read, comprehensive implementation plan for establishing an asset protection program Outlines detailed strategies for creating metrics that measure the effectiveness and efficiency of an asset protection program Offers increased emphasis through metrics to justify security professionals as integral assets to the corporation Provides a detailed example of a corporation briefing for security directors to provide to executive management

Theory with Applications Syngress

Guard Force Management looks at the contract guard force as a business and demonstrates how current management techniques can be used to improve efficiency and increase profitability. The author takes proven management principles and applies them to the competitive security industry. This updated edition includes an entirely new chapter on preparation and response to crisis in order to maintain business continuity. The book focuses on administrative and financial functions that are frequently neglected in guard companies, and discusses planning and conducting guard operations in detail. * Addresses the administrative, financial and client service needs of the security guard function; * Details the analytical steps needed to establish, equip, train and employ a guard force; * Emphasizes practical, proven management techniques

The Theory and Practice of Security CRC Press

Considered the gold-standard reference on information security, the Information Security Management Handbook provides an authoritative compilation of the fundamental knowledge, skills, techniques, and tools required of today's IT security professional. Now in its sixth edition, this 3200 page, 4 volume stand-alone reference is organized under the CISSP Common Body of Knowledge domains and has been updated yearly. Each annual update, the latest is Volume 6, reflects the changes to the CBK in response to new laws and evolving technology.

A Total Security Management Approach Lulu.com

Industrial Security Management helps security directors and students get a better understanding of security functions: how they should be integrated into corporate operations and how they differ from law enforcement. Most books on the topic stress hardware rather than management techniques. This book offers readers detailed coverage on systems, procedures, and how to select and train competent line managers and supervisors. The updated edition includes new chapters on legal and insurance considerations and 3 new appendices covering important points in security checklists. For a full theoretical and practical discussion of security, Industrial Security Management offers readers everything they need to know.

A Risk Assessment Guide for Decision Makers, Second Edition CRC Press

The Manager’s Handbook for Corporate Security: Establishing and Managing a Successful Assets Protection Program, Second Edition, guides readers through today’s dynamic security industry, covering the multifaceted functions of corporate security and providing managers with advice on how to grow not only their own careers, but also the careers of those they manage on a daily basis. This accessible, updated edition provides an

implementation plan for establishing a corporate security program, especially for those who have little or no knowledge on the topic. It also includes information for intermediate and advanced professionals who are interested in learning more about general security, information systems security, and information warfare. Addresses today's complex security industry, the role of the security manager, the diverse set of corporate security functions, and skills for succeeding in this dynamic profession Outlines accessible, comprehensive implementation plans for establishing asset protection programs Provides tactics for intermediate and advanced professionals on the topics of general security, information systems security, and information warfare Offers new perspectives on the future of security and evolving expectations of security professionals

Industrial Security Management Elsevier

The prominence and growing dependency on information communication technologies in nearly every aspect of life has opened the door to threats in cyberspace. Criminal elements inside and outside organizations gain access to information that can cause financial and reputational damage. Criminals also target individuals daily with personal devices like smartphones and home security systems who are often unaware of the dangers and the privacy threats around them. The Handbook of Research on Information and Cyber Security in the Fourth Industrial Revolution is a critical scholarly resource that creates awareness of the severity of cyber information threats on personal, business, governmental, and societal levels. The book explores topics such as social engineering in information security, threats to cloud computing, and cybersecurity resilience during the time of the Fourth Industrial Revolution. As a source that builds on available literature and expertise in the field of information technology and security, this publication proves useful for academicians, educationalists, policy makers, government officials, students, researchers, and business leaders and managers.

Efficiently secure critical infrastructure systems IGI Global

The study focuses to provide the requisite knowledge and skills to top level managers and security professionals by familiarizing with the latest advances in science of security management. There are nine divisions and each deals with different subject as Basic concept, Planning process, Organizing security operations, Staffing security operations, Directing security operations, Controlling and coordination etc. All security personnel, security managers, teachers will find this study on security worth practice.

Strategic Security Elsevier

To adequately protect an organization, physical security must go beyond the "gates, guns, and guards" mentality that characterizes most security programs. Creating a sound security plan involves understanding not only security requirements but also the dynamics of the marketplace, employee issues, and management goals. The Complete Guide to Physica

Industrial Cybersecurity Butterworth-Heinemann

Former police and military personnel possess attractive skill sets for the private security industry; however, the transition to the corporate arena is not without challenges. Competition for these jobs is fierce. Many candidates possess degrees in security management—some having spent their entire professional careers in private security. From Police to Security Professional: A Guide to a Successful Career Transition provides tips on overcoming the inherent obstacles law enforcement professionals face in making the switch and supplies a practical roadmap for entry into the private security world. The foundation of the book comes from the author's own journey and the many hurdles he encountered transitioning to private sector security. With his help, you'll learn: The unique skills, experience, and mentality required to enter into the private security industry from a law enforcement background The opportunities available and the different areas within the industry—including benefits and income potential How to properly evaluate your training portfolio How to tailor your resume to garner the attention of hiring executives The many professional associations and certifications that could be helpful in your career Vital to your ability to succeed is understanding that security management has evolved into a distinct profession in its own right—one that brings with it different education, experience, and skill sets that clearly differentiate it from law enforcement. This book will help you better understand and be prepared for the policies, processes, and a corporate environment that operates in a very different way than the police structure to which you are accustomed. With the author's help, you'll give yourself every advantage to get the job and succeed in your new career.

Measuring the Effectiveness and Efficiency of a Security Program New Age International

A guide for facility managers of varying types of facilities including, apartment buildings/complexes, office buildings, retail stores, educational facilities (schools), restaurants, and countless others. It will look specifically at the physical similarities inherent in all buildings/facilities and delve into the operational/maintenance needs, access control, audit proceedures and emergency procedure requirements. It provides procedures and policy direction in facilities that are lacking such formalized doctrine and gives a starting point to run their facilities in a consistent manner with a focus on safety and security, as well as keeping control of liability risk.

Contemporary Security Management Prentice Hall Direct

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.