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Computer Safety, Reliability, and Security
A CISO Guide to Cyber Resilience
The Official (ISC)2 Guide to the SSCP CBK
Contemporary Challenges for Cyber Security and Data Privacy
Security and Quality in Cyber-Physical Systems Engineering
Cyber Security: Law and Guidance
DNS Security Management
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US National Cyber Security Strategy and Programs Handbook Volume 1 Strategic Information and Developments Addison-Wesley Professional
Mit dem Referenzarchitekturmodell Industrie 4.0 (RAMI4.0) werden erstmalig unterschiedliche Aspekte in einem gemeinsamen Modell zusammengeführt (Kommunikationslayer, Lebenszyklus von Anlagen beziehungsweise Produkten sowie Automatisierungs- und IT-Ebene). Mit diesem Werk erhält der Leser erstmals eine Zusammenfassung verschiedener Dokumente zum Thema Industrie 4.0: sozusagen einen roten Faden, der die Inhalte dieser Dokumente zueinander in Beziehung setzt. Das Buch vermittelt die technischen Grundlagen zur Realisierung von Industrie 4.0-Wertschöpfungsnetzwerken, in denen Gegenstände der physischen Welt gemäß Referenzarchitekturmodell Industrie 4.0 (RAMI 4.0) für ihre Verwendung in der Informationswelt als I4.0-Komponenten beschrieben werden.
Computer Safety, Reliability, and Security Packt Publishing Ltd
An advanced Domain Name System (DNS) security resource that explores the operation of DNS, its vulnerabilities, basic security approaches, and mitigation strategies DNS Security Management offers an overall role-based security approach and discusses the various threats to the Domain Name Systems (DNS). This vital resource is filled with proven strategies for detecting and mitigating these all too frequent threats. The authors—noted experts on the topic—offer an introduction to the role of DNS and explore the operation of DNS. They cover a myriad of DNS vulnerabilities and include preventative strategies that can be implemented. Comprehensive in scope, the text shows how to secure DNS resolution with the Domain Name System Security Extensions (DNSSEC). In addition, the text includes discussions on security applications facility by DNS, such as anti-spam, SPF, DANE and related CERT/SSHFP records. This important resource: Presents security approaches for the various types of DNS deployments by role (e.g., recursive vs. authoritative) Discusses DNS resolvers including host access protections, DHCP configurations and DNS recursive server IPs Examines DNS data collection, data analytics, and detection strategies With cyber attacks ever on the rise worldwide, DNS Security Management offers network engineers a much-needed resource that provides a clear understanding of the threats to networks in order to mitigate the risks and assess the strategies to defend against threats.
A CISO Guide to Cyber Resilience John Wiley & Sons
This volume constitutes

the proceedings of the Second International Conference on Reliability, Safety and Security of Railway Systems, RRSRail 2017, held in Pistoia, Italy, in November 2017. The 16 papers presented in this volume were carefully reviewed and selected from 34 submissions. They are organized in topical sections named: communication challenges in railway systems; formal modeling and verification for safety; light rail and urban transit; and engineering techniques and standards. The book also contains one keynote talk in full-paper length.

The Official (ISC)2 Guide to the SSCP CBK IGI Global

Concerning application layer DDoS attacks, Bureau 121, camfecting, cyber attack threat trends, ECHELON, Fifth Dimension Operations, Intervasion of the UK, Military-digital complex, PLA Unit 61398, Stuxnet, and more

Contemporary Challenges for Cyber Security and Data Privacy Bloomsbury Publishing

The Industry Standard, Vendor-Neutral Guide to Managing SOCs and Delivering SOC Services This completely new, vendor-neutral guide brings together all the knowledge you need to build, maintain, and operate a modern Security Operations Center (SOC) and deliver security services as efficiently and cost-effectively as possible. Leading security architect Joseph Muniz helps you assess current capabilities, align your SOC to your business, and plan a new SOC or evolve an existing one. He covers people, process, and technology; explores each key service handled by mature SOCs; and offers expert guidance for managing risk, vulnerabilities, and compliance. Throughout, hands-on examples show how advanced red and blue teams execute and defend against real-world exploits using tools like Kali Linux and Ansible. Muniz concludes by previewing the future of SOCs, including Secure Access Service Edge (SASE) cloud technologies and increasingly sophisticated automation. This guide will be indispensable for everyone responsible for delivering security services—managers and cybersecurity professionals alike. * Address core business and operational requirements, including sponsorship, management, policies, procedures, workspaces, staffing, and technology * Identify, recruit, interview, onboard, and grow an outstanding SOC team * Thoughtfully decide what to outsource and what to insource * Collect, centralize, and use both internal data and external threat intelligence * Quickly and efficiently hunt threats, respond to incidents, and investigate artifacts * Reduce future risk by improving incident recovery and vulnerability management * Apply orchestration and automation effectively, without just throwing money at them * Position yourself today for emerging SOC technologies

Security and Quality in Cyber-Physical Systems Engineering Notion Press

The landscape of court technology has changed rapidly. As digital tools help facilitate the business and administrative process, multiple entry points for data breaches have also significantly increased in the judicial branch at all levels. Cybersecurity & the Courthouse: Safeguarding the Judicial Process explores the issues surrounding

cybersecurity for the court and court systems. This unique resource provides the insight to: Increase your awareness of the issues around cybersecurity Properly defend client and case information Understand the steps needed to mitigate and control the risk of and fallout from a data breach Identify possible pathways to address strengths and weaknesses in individual proceedings as they are presented to the courts Learn how to address the risk of a significant data breach Key Highlights Include: Comprehensive guidance to legal professionals on the growing concerns of cybersecurity within the courts Vital information needed to mitigate and control the risk of and the fallout of a data breach Addresses the issues of data security, and the necessary steps to protect the integrity of the judicial process Provides a roadmap and the steps necessary to protect data in legal cases before the court

Cyber Security: Law and Guidance (ISC)2 Press

The importance of businesses being 'operationally resilient' is becoming increasingly important, and a driving force behind whether an organization can ensure that its valuable business operations can 'bounce back' from or manage to evade impactful occurrences is its security risk management capabilities. In this book, we change the perspective on an organization's operational resilience capabilities so that it shifts from being a reactive (tick box) approach to being proactive. The perspectives of every chapter in this book focus on risk profiles and how your business can reduce these profiles using effective mitigation measures. The book is divided into two sections: 1. Security Risk Management (SRM). All the components of security risk management contribute to your organization's operational resilience capabilities, to help reduce your risks. • Reduce the probability/ likelihood. 2. Survive to Operate. If your SRM capabilities fail your organization, these are the components that are needed to allow you to quickly 'bounce back.' • Reduce the severity/ impact. Rather than looking at this from an operational resilience compliance capabilities aspect, we have written these to be agnostic of any specific operational resilience framework (e.g., CERT RMM, ISO 22316, SP 800- 160 Vol. 2 Rev. 1, etc.), with the idea of looking at operational resilience through a risk management lens instead. This book is not intended to replace these numerous operational resilience standards/ frameworks but, rather, has been designed to complement them by getting you to appreciate their value in helping to identify and mitigate your operational resilience risks. Unlike the cybersecurity or information security domains, operational resilience looks at risks from a business-oriented view, so that anything that might disrupt your essential business operations are risk-assessed and appropriate countermeasures identified and applied. Consequently, this book is not limited to cyberattacks or the loss of sensitive data but, instead, looks at things from a holistic business-based perspective.

DNS Security Management

https://www.chinesestandard.net

This part of GB/T 30976

specifies the objectives, assessment contents and implementation process of the information security assessment of industrial control systems (SCADA, DCS, PLC, PCS, etc.). This part applies to system designers, equipment manufacturers, system integrators, engineering companies, users, asset owners, and assessment and certification agencies to perform assessment against the information security of the industrial control systems.

Cyber Security for Critical Infrastructure Springer

This book constitutes the refereed post-conference proceedings of the 5th International Workshop on Security of Industrial Control Systems and Cyber-Physical Systems, CyberICPS 2019, the Third International Workshop on Security and Privacy Requirements Engineering, SECPRE 2019, the First International Workshop on Security, Privacy, Organizations, and Systems Engineering, SPOSE 2019, and the Second International Workshop on Attacks and Defenses for Internet-of-Things, ADIoT 2019, held in Luxembourg City, Luxembourg, in September 2019, in conjunction with the 24th European Symposium on Research in Computer Security, ESORICS 2019. The CyberICPS Workshop received 13 submissions from which 5 full papers and 2 short papers were selected for presentation. They cover topics related to threats, vulnerabilities and risks that cyber-physical systems and industrial control systems face; cyber attacks that may be launched against such systems; and ways of detecting and responding to such attacks. From the SECPRE Workshop 9 full papers out of 14 submissions are included. The selected papers deal with aspects of security and privacy requirements assurance and evaluation; and security requirements elicitation and modelling and to GDPR compliance. The SPOSE Workshop received 7 submissions from which 3 full papers and 1 demo paper were accepted for publication. They demonstrate the possible spectrum for fruitful research at the intersection of security, privacy, organizational science, and systems engineering. From the ADIoT Workshop 5 full papers and 2 short papers out of 16 submissions are included. The papers focus on IoT attacks and defenses and discuss either practical or theoretical solutions to identify IoT vulnerabilities and IoT security mechanisms.

Handbook of RAMS in Railway Systems Scientific e-Resources

As an information security professional, it is essential to stay current on the latest advances in technology and the effluence of security threats. Candidates for the CISSP® certification need to demonstrate a thorough understanding of the eight domains of the CISSP Common Body of Knowledge (CBK®), along with the ability to apply this indepth knowledge to daily practices. Recognized as one of the best tools available for security professionals, specifically for the candidate who is striving to become a CISSP, the Official (ISC)²® Guide to the CISSP® CBK®, Fourth Edition is both up-to-date and relevant. Reflecting the significant changes in the CISSP CBK, this book provides a comprehensive guide to the eight domains. Numerous illustrated examples and practical exercises are included in this book to demonstrate concepts and real-life scenarios.

Endorsed by (ISC)² and compiled and reviewed by CISSPs and industry luminaries around the world, this textbook provides unrivaled preparation for the certification exam and is a reference that will serve you well into your career. Earning your CISSP is a respected achievement that validates your knowledge, skills, and experience in building and managing the security posture of your organization and provides you with membership to an elite network of professionals worldwide.

Cyber Security Auditing, Assurance, and Awareness Through CSAM and CATRAM John Wiley & Sons

The book provides the complete strategic understanding requisite to allow a person to create and use the RMF process recommendations for risk management. This will be the case both for applications of the RMF in corporate training situations, as well as for any individual who wants to obtain specialized knowledge in organizational risk management. It is an all-purpose roadmap of sorts aimed at the practical understanding and implementation of the risk management process as a standard entity. It will enable an "application" of the risk management process as well as the fundamental elements of control formulation within an applied context.

Probabilistic Modeling in System Engineering Packt Publishing Ltd

This book is intended for systems analysts, designers, developers, users, experts, as well as those involved in quality, risk, safety and security management, and, of course, scientists and students. The various sets of original and traditional probabilistic models and interesting results of their applications to the research of different systems are presented. The models are understandable and applicable for solving system engineering problems: to optimize system requirements, compare different processes, rationale technical decisions, carry out tests, adjust technological parameters, and predict and analyze quality and risks. The engineering decisions, scientifically proven by the proposed models and software tools, can provide purposeful, essential improvement of quality and mitigation of risks, and reduce the expense of operating systems. Models, methods, and software tools can also be used in education for system analysis and mathematical modeling on specializations, for example "systems engineering," "operations research," "enterprise management," "project management," "risk management," "quality of systems," "safety and security," "smart systems," "system of systems," etc.

Cyber Security IGI Global

Past events have shed light on the vulnerability of mission-critical computer systems at highly sensitive levels. It has been demonstrated that common hackers can use tools and techniques downloaded from the Internet to attack government and commercial information systems. Although threats may come from mischief makers and pranksters, they are more

Biopharmaceutical Processing Pearson IT Certification

In an era defined by the pervasive integration of digital systems across industries, the paramount concern is the safeguarding of sensitive

information in the face of escalating cyber threats. Contemporary Challenges for Cyber Security and Data Privacy stands as an indispensable compendium of erudite research, meticulously curated to illuminate the multifaceted landscape of modern cybercrime and misconduct. As businesses and organizations pivot towards technological sophistication for enhanced efficiency, the specter of cybercrime looms larger than ever. In this scholarly research book, a consortium of distinguished experts and practitioners convene to dissect, analyze, and propose innovative countermeasures against the surging tide of digital malevolence. The book navigates the intricate domain of contemporary cyber challenges through a prism of empirical examples and intricate case studies, yielding unique and actionable strategies to fortify the digital realm. This book dives into a meticulously constructed tapestry of topics, covering the intricate nuances of phishing, the insidious proliferation of spyware, the legal crucible of cyber law and the ominous specter of cyber warfare. Experts in computer science and security, government entities, students studying business and organizational digitalization, corporations and small and medium enterprises will all find value in the pages of this book.

Mastering Windows Security and Hardening Springer

Cybersecurity refers to the measures taken to keep electronic information private and safe from damage or theft. It is also used to make sure these devices and data are not misused. Cybersecurity applies to both software and hardware, as well as information on the Internet, and can be used to protect everything from personal information to complex government systems. Cyber security is a distributed problem partly because of the distributed nature of the underlying infrastructure and partly because industries, government and individuals all come at it with different perspectives. Under these circumstances regulation is best attempted from the bottom up, and legalisation, especially in the area of criminal law, should be sharply focused. There is the need for distributed approaches instead of the more traditional single, concentrated approach. Cybersecurity is the body of technologies, processes, and practices designed to protect networks, computers, and data from attack, damage, and unauthorized access. Cybersecurity training teaches professionals to spot vulnerabilities, fend off attacks, and immediately respond to emergencies. The spread of modern information technologies has brought about considerable changes in the global environment, ranging from the speed of economic transactions to the nature of social interactions to the management of military operations in both peacetime and war. The development of information technology makes it possible for adversaries to attack each other in new ways and with new forms of damage, and may create new targets for attack. This book fully introduces the theory and practice of cyber security. Comprehensive in scope, it covers applied and practical elements, theory, and the reasons

for the design of applications and security techniques. It treats both the management and engineering issues of computer security.
Cybersecurity in the Electricity Sector John Wiley & Sons
Digital Transformation in Industry 4.0/5.0 requires the effective and efficient application of digitalization technologies in the area of production systems. This book elaborates on concepts, techniques, and technologies from computer science in the context of Industry 4.0/5.0 and demonstrates their possible applications. Thus, the book serves as an orientation but also as a reference work for experts in the field of Industry 4.0/5.0 to successfully advance digitization in their companies.
Computer Security Wolters Kluwer
Enhance Windows security and protect your systems and servers from various cyber attacks Key Features Book DescriptionAre you looking for effective ways to protect Windows-based systems from being compromised by unauthorized users? Mastering Windows Security and Hardening is a detailed guide that helps you gain expertise when implementing efficient security measures and creating robust defense solutions. We will begin with an introduction to Windows security fundamentals, baselining, and the importance of building a baseline for an organization. As you advance, you will learn how to effectively secure and harden your Windows-based system, protect identities, and even manage access. In the concluding chapters, the book will take you through testing, monitoring, and security operations. In addition to this, you'll be equipped with the tools you need to ensure compliance and continuous monitoring through security operations. By the end of this book, you'll have developed a full understanding of the processes and tools involved in securing and hardening your Windows environment.What you will learn Understand baselining and learn the best practices for building a baseline Get to grips with identity management and access management on Windows-based systems Delve into the device administration and remote management of Windows-based systems Explore security tips to harden your Windows server and keep clients secure Audit, assess, and test to ensure controls are successfully applied and enforced Monitor and report activities to stay on top of vulnerabilities Who this book is for This book is for system administrators, cybersecurity and technology professionals, solutions architects, or anyone interested in learning how to secure their Windows-based systems. A basic understanding of Windows security concepts, Intune, Configuration Manager, Windows PowerShell, and Microsoft Azure will help you get the best out of this book.
Auditing IT Infrastructures for Compliance Springer Nature
This book offers a systematic explanation of cybersecurity protection of electricity supply facilities, including discussion of related costs, relevant standards, and recent solutions. The author explains the current state of cybersecurity in the electricity market, and cybersecurity standards that apply in that sector. He then offers a

systematic approach to cybersecurity management, including new methods of cybersecurity assessment, cost evaluation and comprehensive defence. This monograph is suitable for practitioners, professionals, and researchers engaged in critical infrastructure protection.

IT Auditing Using Controls to Protect Information Assets, Third Edition Jones & Bartlett Learning

The Handbook of RAMS in Railway Systems: Theory and Practice addresses the complexity in today's railway systems, which use computers and electromechanical components to increase efficiency while ensuring a high level of safety. RAM (Reliability, Availability, Maintainability) addresses the specifications and standards that manufacturers and operators have to meet. Modeling, implementation, and assessment of RAM and safety requires the integration of railway engineering systems; mathematical and statistical methods; standards compliance; and financial/economic factors. This Handbook brings together a group of experts to present RAM and safety in a modern, comprehensive manner.

GB/T 30976.1-2014 Translated English of Chinese Standard. (GBT 30976.1-2014, GB/T30976.1-2014, GBT30976.1-2014) Springer Nature

Today, cyberspace has emerged as a domain of its own, in many ways like land, sea and air. Even if a nation is small in land area, low in GDP per capita, low in resources, less important in geopolitics, low in strength of armed forces, it can become a military super power if it is capable of launching a cyber-attack on critical infrastructures of any other nation including superpowers and crumble that nation. In fact cyber space redefining our security assumptions and defense strategies. This book explains the current cyber threat landscape and discusses the strategies being used by governments and corporate sectors to protect Critical Infrastructure (CI) against these threats.

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