Download Free Cert Resilience Management Model Cert Rmm A Maturity Model For Managing Operational Resilience Sei Series In Software Engineering Free Download Pdf

CERT Resilience Management Model (CERT-RMM) CERT® Resilience Management Model CERT® Resilience Management Model Outlines and Highlights for Cert Resilience Management Model Studyguide for Cert Resilience Management Model The CERT Resilience Management Model Roll Model The CERT Guide to Insider Threats Measuring Operational Resilience Using the CERT(Registered) Resilience Management Model The CERT Oracle Secure Coding Standard for Java Information Security Management Handbook, Volume 6 Information Security Information Security Management Handbook, Sixth Edition Modern CTO Corporate Computer Security Transportation Systems and Engineering: Concepts, Methodologies, Tools, and Applications Cybersecurity: Engineering a Secure Information Technology Organization Modernizing Legacy Systems Trends and Applications in Software Engineering The "Orange" Model of Data Management Cyber Security Engineering CMMI for Acquisition Model-Based Engineering with AADL CMMI Cyber Resilience of Systems and Networks Cyber Behavior: Concepts, Methodologies, Tools, and Applications Managing Information Security Risks Joint Commission International Accreditation Standards for Long Term Care Acacia hybrid: Ecology and silviculture in Vietnam Information Security in Education and Practice Cyber Forensics Information Security Management Handbook, Sixth Edition Routledge Handbook of Planning and Management of Global Strategic Infrastructure Projects Why We Sleep ICCWS 2020 15th International Conference on Cyber Warfare and Security Cybersecurity and Resilience in the Arctic Radiation Oncology Physics ICCWS 2017 12th International Conference on Cyber Warfare and Security ICMLG 2017 5th International Conference on Management Leadership and Governance Demystifying Internet of Things Security

*Updated revision of the best selling book on CMMI – now covering version 1.2. Measurement involves transforming management decisions, such as strategic direction and policy, into action, and measuring the performance of that action. As organizations strive to improve their ability to effectively manage operational resilience, it is essential that they have an approach for determining what measures best inform the extent to which they are meeting their performance objectives. Operational resilience comprises the disciplines of security, business continuity, and aspects of IT operations. The reference model used as the foundation for this research project is the CERT(R) Resilience Management Model v1.0. This model provides a process-based framework of goals and practices at four increasing levels of capability and defines twenty six process areas, each of which includes a set of candidate measures. Meaningful measurement occurs in a context so this approach is further defined by exploring and deriving example measures within the context of selected ecosystems, which are collections of process areas that are required to meet a specific objective. Example measures are defined using a measurement template. This report is the first in a series and is intended to start a dialogue on this important topic. *This book is a brief overview of the model and has only 24 pages.*Almost every data management professional, at some point in their career, has come across the following crucial questions:1. Which industry reference model should I use for the implementation of data managementfunctions?2. What are the key data management capabilities that are feasible and applicable to my company?3. How do I measure the maturity of the data management functions and compare that withthose of my peers in the industry4. What are the critical, logical steps in the implementation of data management?The "Orange" (meta)model of data management provides a collection of techniques and templates for the practical set up of data management through the design and implementation of the data and information value chain, enabled by a set of data management*

capabilities.This book is a toolkit for advanced data management professionals and consultants thatare involved in the data management function implementation.This book works together with the earlier published "The Data Management Toolkit". The "Orange" model assists in specifying the feasible scope of data management capabilities, that fits company's business goals and resources. "The Data Management Toolkit" is a practical implementation guide of the chosen data management capabilities. Never HIGHLIGHT a Book Again Virtually all testable terms, concepts, persons, places, and events are included. Cram101 Textbook Outlines gives all of the outlines, highlights, notes for your textbook with optional online practice tests. Only Cram101 Outlines are Textbook Specific. Cram101 is NOT the Textbook. Accompanys: 9780521673761 Most organizations rely on complex enterprise information systems (EISs) to codify their business practices and collect, process, and analyze business data. These EISs are large, heterogeneous, distributed, constantly evolving, dynamic, long-lived, and mission critical. In other words, they are a complicated system of systems. As features are added to an EIS, new technologies and components are selected and integrated. In many ways, these information systems are to an enterprise what a brain is to the higher species--a complex, poorly understood mass upon which the organism relies for its very existence. To optimize business value, these large, complex systems must be modernized--but where does one begin? This book uses an extensive real-world case study (based on the modernization of a thirty year old retail system) to show how modernizing legacy systems can deliver significant business value to any organization. Describing OCTAVE (Operationally Critical Threat, Asset and Vulnerability Evaluation), a method of evaluating information security risk, this text should be of interest to risk managers. From driverless cars to vehicular networks, recent technological advances are being employed to increase road safety and improve driver satisfaction. As with any newly developed technology, researchers must take care to address all concerns, limitations, and dangers before widespread public adoption. Transportation Systems and Engineering: Concepts, Methodologies, Tools, and Applications addresses current trends in transportation technologies, such as smart cars, green technologies, and infrastructure development. This multivolume book is a critical reference source for engineers, computer scientists, transportation authorities, students, and practitioners in the field of transportation systems management. This book contains a selection of papers from The 2015 International Conference on Software Process Improvement (CIMPS'15), held between the 28th and 30th of October in Mazatlán, Sinaloa, México. The CIMPS'15 is a global forum for researchers and practitioners that present and discuss the most recent innovations, trends, results, experiences and concerns in the several perspectives of Software Engineering with clear relationship but not limited to software processes, Security in Information and Communication Technology and Big Data Field. The main topics covered are: Organizational Models, Standards and Methodologies, Knowledge Management, Software Systems, Applications and Tools, Information and Communication Technologies and Processes in non-software domains (Mining, automotive, aerospace, business, health care, manufacturing, etc.) with a demonstrated relationship to software process challenges. This book introduces fundamental concepts of cyber resilience, drawing expertise from academia, industry, and government. Resilience is defined as the ability to recover from or easily adjust to shocks and stresses. Unlike the concept of security - which is often and incorrectly conflated with resilience -- resilience refers to the system's ability to recover or regenerate its performance after an unexpected impact produces a degradation in its performance. A clear understanding of distinction between security, risk and resilience is important for developing appropriate management of cyber threats. The book presents insightful discussion of the most current technical issues in cyber resilience, along with relevant methods and procedures. Practical aspects of current cyber resilience practices and techniques are described as they are now, and as they are likely to remain in the near term. The bulk of the material is presented in the book in a way that is easily accessible to non-specialists. Logical, consistent, and continuous discourse covering all key topics relevant to the field will be of use as teaching material as well as source of emerging scholarship in the field. A typical chapter provides introductory, tutorial-like material, detailed examples, in-depth elaboration of a selected technical approach, and a concise summary of key ideas. CERT® Resilience Management Model (CERT-RMM) is an innovative and transformative way to

manage operational resilience in complex, risk-evolving environments. CERT-RMM distills years of research into best practices for managing the security and survivability of people, information, technology, and facilities. It integrates these best practices into a unified, capability-focused maturity model that encompasses security, business continuity, and IT operations. By using CERT-RMM, organizations can escape silo-driven approaches to managing operational risk and align to achieve strategic resilience management goals. This book both introduces CERT-RMM and presents the model in its entirety. It begins with essential background for all professionals, whether they have previously used process improvement models or not. Next, it explains CERT-RMM's Generic Goals and Practices and discusses various approaches for using the model. Short essays by a number of contributors illustrate how CERT-RMM can be applied for different purposes or can be used to improve an existing program. Finally, the book provides a complete baseline understanding of all 26 process areas included in CERT-RMM. Part One summarizes the value of a process improvement approach to managing resilience, explains CERT-RMM's conventions and core principles, describes the model architecturally, and shows how itsupports relationships tightly linked to your objectives. Part Two focuses on using CERT-RMM to establish a foundation for sustaining operational resilience management processes in complex environments where risks rapidly emerge and change. Part Three details all 26 CERT-RMM process areas, from asset definition through vulnerability resolution. For each, complete descriptions of goals and practices are presented, with realistic examples. Part Four contains appendices, including Targeted Improvement Roadmaps, a glossary, and other reference materials. This book will be valuable to anyone seeking to improve the mission assurance of high-value services, including leaders of large enterprise or organizational units, security or business continuity specialists, managers of large IT operations, and those using methodologies such as ISO 27000, COBIT, ITIL, or CMMI. Following the migration of workflows, data, and communication to the Cloud and other Internet-based frameworks, interaction over the Web has become ever more commonplace. As with any social situation, there are rules and consequences to actions within a virtual environment. Cyber Behavior: Concepts, Methodologies, Tools, and Applications explores the role of cyberspace in modern communication and interaction, including considerations of ethics, crime, security, and education. With chapters on a variety of topics and concerns inherent to a contemporary networked society, this multi-volume work will be of particular interest to students and academicians, as well as software developers, computer scientists, and specialists in the field of Information Technologies. Conventional build-then-test practices are making today's embedded, software-reliant systems unaffordable to build. In response, more than thirty leading industrial organizations have joined SAE (formerly, the Society of Automotive Engineers) to define the SAE Architecture Analysis & Design Language (AADL) AS-5506 Standard, a rigorous and extensible foundation for model-based engineering analysis practices that encompass software system design, integration, and assurance. Using AADL, you can conduct lightweight and rigorous analyses of critical real-time factors such as performance, dependability, security, and data integrity. You can integrate additional established and custom analysis/specification techniques into your engineering environment, developing a fully unified architecture model that makes it easier to build reliable systems that meet customer expectations. Model-Based Engineering with AADL is the first guide to using this new international standard to optimize your development processes. Coauthored by Peter H. Feiler, the standard's author and technical lead, this introductory reference and tutorial is ideal for self-directed learning or classroom instruction, and is an excellent reference for practitioners, including architects, developers, integrators, validators, certifiers, first-level technical leaders, and project managers. Packed with real-world examples, it introduces all aspects of the AADL notation as part of an architecture-centric, model-based engineering approach to discovering embedded software systems problems earlier, when they cost less to solve. Throughout, the authors compare AADL to other modeling notations and approaches, while presenting the language via a complete case study: the development and analysis of a realistic example system through repeated refinement and analysis. Part One introduces both the AADL language and core Model-Based Engineering (MBE) practices, explaining basic software systems modeling and analysis in the context of an example system, and offering practical guidelines for

effectively applying AADL. Part Two describes the characteristics of each AADL element, including their representations, applicability, and constraints. The Appendix includes comprehensive listings of AADL language elements, properties incorporated in the AADL standard, and a description of the book's example system. "Sleep is one of the most important but least understood aspects of our life, wellness, and longevity ... An explosion of scientific discoveries in the last twenty years has shed new light on this fundamental aspect of our lives. Now ... neuroscientist and sleep expert Matthew Walker gives us a new understanding of the vital importance of sleep and dreaming"--Amazon.com. Break down the misconceptions of the Internet of Things by examining the different security building blocks available in Intel Architecture (IA) based IoT platforms. This open access book reviews the threat pyramid, secure boot, chain of trust, and the SW stack leading up to defense-in-depth. The IoT presents unique challenges in implementing security and Intel has both CPU and Isolated Security Engine capabilities to simplify it. This book explores the challenges to secure these devices to make them immune to different threats originating from within and outside the network. The requirements and robustness rules to protect the assets vary greatly and there is no single blanket solution approach to implement security. Demystifying Internet of Things Security provides clarity to industry professionals and provides and overview of different security solutions What You'll Learn Secure devices, immunizing them against different threats originating from inside and outside the networkGather an overview of the different security building blocks available in Intel Architecture (IA) based IoT platformsUnderstand the threat pyramid, secure boot, chain of trust, and the software stack leading up to defense-in-depth Who This Book Is For Strategists, developers, architects, and managers in the embedded and Internet of Things (IoT) space trying to understand and implement the security in the IoT devices/platforms. This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. A strong business focus through a solid technical presentation of security tools. Boyle/Panko provides a strong business focus along with a solid technical understanding of security tools. This text gives readers the IT security skills they need for the workplace. This edition is more business focused and contains additional hands-on projects, coverage of wireless and data security, and case studies. Software is essential and pervasive in the modern world, but software acquisition, development, operation, and maintenance can involve substantial risk, allowing attackers to compromise millions of computers every year. This groundbreaking book provides a uniquely comprehensive guide to software security, ranging far beyond secure coding to outline rigorous processes and practices for managing system and software lifecycle operations. The book opens with a comprehensive guide to the software lifecycle, covering all elements, activities, and practices encompassed by the universally accepted ISO/IEEE 12207-2008 standard. The authors then proceed document proven management architecture and process framework models for software assurance, such as ISO 21827 (SSE-CMM), CERT-RMM, the Software Assurance Maturity Model, and NIST 800-53. Within these models, the authors present standards and practices related to key activities such as threat and risk evaluation, assurance cases, and adversarial testing. Ideal for new and experienced cybersecurity professionals alike in both the public and private sectors, this one-of-a-kind book prepares readers to create and manage coherent, practical, cost-effective operations to ensure defect-free systems and software. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Pain is an epidemic. It prevents you from performing at your best because it robs you of concentration, power, and peace of mind. But most pain is preventable and treatable, and healing is within your grasp. Hundreds of thousands of people around the globe have taken life "by the balls" and circumvented a dismal future of painkillers, surgeries, and hopelessness by using Jill Miller's groundbreaking Roll Model Method. The Roll Model gives you the tools to change the course of your life in less than 5 minutes a day. You are a fully equipped self-healing organism, and this book will guide you through easy-to-perform self-massage techniques that will erase pain and improve your performance in whatever activities you pursue. The Roll Model teaches you how to improve the quality of your life no matter your size, shape, or condition. Within these pages you will find: Inspiring stories of people just like you who have altered the course of their lives by using the Roll

Model Method Accessible explanations of how and why this system works based on the science of your body and the physiological effects of rolling Step-by-step rolling techniques to help awaken your body's resilience from head to toe so that you have more energy, less stress, and greater performance Whether you're living with constant discomfort, seeking to improve your mobility, or trying to avoid medication and surgery, this book provides empowering and effective solutions for becoming your own best Roll Model. Information Security: Principles and Practices, Second Edition Everything You Need to Know About Modern Computer Security, in One Book Clearly explains all facets of information security in all 10 domains of the latest Information Security Common Body of Knowledge [(ISC)² CBK]. Thoroughly updated for today's challenges, technologies, procedures, and best practices. The perfect resource for anyone pursuing an IT security career. Fully updated for the newest technologies and best practices, Information Security: Principles and Practices, Second Edition thoroughly covers all 10 domains of today's Information Security Common Body of Knowledge. Two highly experienced security practitioners have brought together all the foundational knowledge you need to succeed in today's IT and business environments. They offer easy-to-understand, practical coverage of topics ranging from security management and physical security to cryptography and application development security. This edition fully addresses new trends that are transforming security, from cloud services to mobile applications, "Bring Your Own Device" (BYOD) strategies to today's increasingly rigorous compliance requirements. Throughout, you'll find updated case studies, review questions, and exercises–all designed to reveal today's real-world IT security challenges and help you overcome them. Learn how to -- Recognize the evolving role of IT security -- Identify the best new opportunities in the field -- Discover today's core information security principles of success -- Understand certification programs and the CBK -- Master today's best practices for governance and risk management -- Architect and design systems to maximize security -- Plan for business continuity -- Understand the legal, investigatory, and ethical requirements associated with IT security -- Improve physical and operational security -- Implement effective access control systems -- Effectively utilize cryptography -- Improve network and Internet security -- Build more secure software -- Define more effective security policies and standards -- Preview the future of information security This manual includes JCI's updated requirements for long term care organizations effective 1 July 2012. All of the standards and accreditation policies and procedures are included, giving long term care organizations around the world the information they need to pursue or maintain JCI accreditation and maximize resident-safe care. The manual contains Joint Commission International's (JCI's) standards, intent statements, and measurable elements for long term care organizations, including resident- centered and organizational requirements. Everything you need to know to be a Modern CTO. Developers are not CTOs, but developers can learn how to be CTOs. In Modern CTO, Joel Beasely provides readers with an in-depth road map on how to successfully navigate the unexplored and jagged transition between these two roles. Drawing from personal experience, Joel gives a refreshing take on the challenges, lessons, and things to avoid on this journey. Readers will learn how Modern CTOs: Manage deadlines Speak up Know when to abandon ship and build a better one Deal with poor code Avoid getting lost in the product and know what UX mistakes to watch out for Manage people and create momentum ... plus much more Modern CTO is the ultimate guidebook on how to kick start your career and go from developer to CTO. CMMI® for Acquisition (CMMI-ACQ) describes best practices for the successful acquisition of products and services. Providing a practical framework for improving acquisition processes, CMMI-ACQ addresses the growing trend in business and government for organizations to purchase or outsource required products and services as an alternative to in-house development or resource allocation. Changes in CMMI-ACQ Version 1.3 include improvements to high maturity process areas, improvements to the model architecture to simplify use of multiple models, and added guidance about using preferred suppliers. CMMI® for Acquisition, Second Edition, is the definitive reference for CMMI-ACQ Version 1.3. In addition to the entire revised CMMI-ACQ model, the book includes updated tips, hints, cross-references, and other author notes to help you understand, apply, and quickly find information about the content of the acquisition process areas. The book now includes more than a dozen contributed essays to help guide the adoption and use of CMMI-

ACQ in industry and government. Whether you are new to CMMI models or are already familiar with one or more of them, you will find this book an essential resource for managing your acquisition processes and improving your overall performance. The book is divided into three parts. Part One introduces CMMI-ACQ in the broad context of CMMI models, including essential concepts and useful background. It then describes and shows the relationships among all the components of the CMMI-ACQ process areas, and explains paths to the adoption and use of the model for process improvement and benchmarking. Several original essays share insights and real experiences with CMMI-ACQ in both industry and government environments. Part Two first describes generic goals and generic practices, and then details the twenty-two CMMI-ACQ process areas, including specific goals, specific practices, and examples. These process areas are organized alphabetically and are tabbed by process area acronym to facilitate quick reference. Part Three provides several useful resources, including sources of further information about CMMI and CMMI-ACQ, acronym definitions, a glossary of terms, and an index. Cyber Security Engineering is the definitive modern reference and tutorial on the full range of capabilities associated with modern cyber security engineering. Pioneering software assurance experts Dr. Nancy R. Mead and Dr. Carol C. Woody bring together comprehensive best practices for building software systems that exhibit superior operational security, and for considering security throughout your full system development and acquisition lifecycles. Drawing on their pioneering work at the Software Engineering Institute (SEI) and Carnegie Mellon University, Mead and Woody introduce seven core principles of software assurance, and show how to apply them coherently and systematically. Using these principles, they help you prioritize the wide range of possible security actions available to you, and justify the required investments. Cyber Security Engineering guides you through risk analysis, planning to manage secure software development, building organizational models, identifying required and missing competencies, and defining and structuring metrics. Mead and Woody address important topics, including the use of standards, engineering security requirements for acquiring COTS software, applying DevOps, analyzing malware to anticipate future vulnerabilities, and planning ongoing improvements. This book will be valuable to wide audiences of practitioners and managers with responsibility for systems, software, or quality engineering, reliability, security, acquisition, or operations. Whatever your role, it can help you reduce operational problems, eliminate excessive patching, and deliver software that is more resilient and secure. Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780321712431 . This publication is aimed at students and teachers involved in teaching programmes in field of medical radiation physics, and it covers the basic medical physics knowledge required in the form of a syllabus for modern radiation oncology. The information will be useful to those preparing for professional certification exams in radiation oncology, medical physics, dosimetry or radiotherapy technology. Since 2001, the CERT® Insider Threat Center at Carnegie Mellon University's Software Engineering Institute (SEI) has collected and analyzed information about more than seven hundred insider cyber crimes, ranging from national security espionage to theft of trade secrets. The CERT® Guide to Insider Threats describes CERT's findings in practical terms, offering specific guidance and countermeasures that can be immediately applied by executives, managers, security officers, and operational staff within any private, government, or military organization. The authors systematically address attacks by all types of malicious insiders, including current and former employees, contractors, business partners, outsourcers, and even cloud-computing vendors. They cover all major types of insider cyber crime: IT sabotage, intellectual property theft, and fraud. For each, they present a crime profile describing how the crime tends to evolve over time, as well as motivations, attack methods, organizational issues, and precursor warnings that could have helped the organization prevent the incident or detect it earlier. Beyond identifying crucial patterns of suspicious behavior, the authors present concrete defensive measures for protecting both systems and data. This book also conveys the big picture of the insider threat problem over time: the complex interactions and unintended consequences of existing policies, practices,

technology, insider mindsets, and organizational culture. Most important, it offers actionable recommendations for the entire organization, from executive management and board members to IT, data owners, HR, and legal departments. With this book, you will find out how to Identify hidden signs of insider IT sabotage, theft of sensitive information, and fraud Recognize insider threats throughout the software development life cycle Use advanced threat controls to resist attacks by both technical and nontechnical insiders Increase the effectiveness of existing technical security tools by enhancing rules, configurations, and associated business processes Prepare for unusual insider attacks, including attacks linked to organized crime or the Internet underground By implementing this book's security practices, you will be incorporating protection mechanisms designed to resist the vast majority of malicious insider attacks. Every year, in response to new technologies and new laws in different countries and regions, there are changes to the fundamental knowledge, skills, techniques, and tools required by all IT security professionals. In step with the lightning-quick, increasingly fast pace of change in the technology field, the Information Security Management Handbook, updated yearly, has become the standard on which all IT security programs and certifications are based. It reflects new updates to the Common Body of Knowledge (CBK) that IT security professionals all over the globe need to know. Captures the crucial elements of the CBK Exploring the ten domains of the CBK, the book explores access control, telecommunications and network security, information security and risk management, application security, and cryptography. In addition, the expert contributors address security architecture and design, operations security, business continuity planning and disaster recovery planning. The book also covers legal regulations, compliance, investigation, and physical security. In this anthology of treatises dealing with the management and technical facets of information security, the contributors examine varied topics such as anywhere computing, virtualization, podslurping, quantum computing, mashups, blue snarfing, mobile device theft, social computing, voting machine insecurity, and format string vulnerabilities. Also available on CD-ROM Safeguarding information continues to be a crucial concern of all IT professionals. As new risks threaten the security of our systems, it is imperative that those charged with protecting that information continually update their armor of knowledge to guard against tomorrow's hackers and software vulnerabilities. This comprehensive Handbook, also available in fully searchable CD-ROM format keeps IT professionals abreast of new developments on the security horizon and reinforces timeless concepts, providing them with the best information, guidance, and counsel they can obtain. The growth of cybersecurity issues reflects all aspects of our lives, both personal and professional. The rise of cyber-attacks today increases political, business and national interest in finding different ways to resolve them. This book addresses some of the current challenges in information security that are of interest for a wide range of users, such as governments, companies, universities and students. Different topics concerning cybersecurity are discussed here, including educational frameworks and applications of security principles in specific domains. Threat actors, be they cyber criminals, terrorists, hacktivists or disgruntled employees, are employing sophisticated attack techniques and anti-forensics tools to cover their attacks and breach attempts. As emerging and hybrid technologies continue to influence daily business decisions, the proactive use of cyber forensics to better assess the risks that the exploitation of these technologies pose to enterprise-wide operations is rapidly becoming a strategic business objective. This book moves beyond the typical, technical approach to discussing cyber forensics processes and procedures. Instead, the authors examine how cyber forensics can be applied to identifying, collecting, and examining evidential data from emerging and hybrid technologies, while taking steps to proactively manage the influence and impact, as well as the policy and governance aspects of these technologies and their effect on business operations. A world-class team of cyber forensics researchers, investigators, practitioners and law enforcement professionals have come together to provide the reader with insights and recommendations into the proactive application of cyber forensic methodologies and procedures to both protect data and to identify digital evidence related to the misuse of these data. This book is an essential guide for both the technical and non-technical executive, manager, attorney, auditor, and general practitioner who is seeking an authoritative source on how cyber forensics may be applied to both evidential data collection and to proactively managing today's and

tomorrow’s emerging and hybrid technologies. The book will also serve as a primary or supplemental text in both under- and post-graduate academic programs addressing information, operational and emerging technologies, cyber forensics, networks, cloud computing and cybersecurity. CERT® Resilience Management Model (CERT-RMM) is an innovative and transformative way to manage operational resilience in complex, risk-evolving environments. CERT-RMM distills years of research into best practices for managing the security and survivability of people, information, technology, and facilities. It integrates these best practices into a unified, capability-focused maturity model that encompasses security, business continuity, and IT operations. By using CERT-RMM, organizations can escape silo-driven approaches to managing operational risk and align to achieve strategic resili. "In the Java world, security is not viewed as an add-on a feature. It is a pervasive way of thinking. Those who forget to think in a secure mindset end up in trouble. But just because the facilities are there doesn't mean that security is assured automatically. A set of standard practices has evolved over the years. The Secure(R) Coding(R) Standard for Java(TM) is a compendium of these practices. These are not theoretical research papers or product marketing blurbs. This is all serious, mission-critical, battle-tested, enterprise-scale stuff." --James A. Gosling, Father of the Java Programming Language An essential element of secure coding in the Java programming language is a well-documented and enforceable coding standard. Coding standards encourage programmers to follow a uniform set of rules determined by the requirements of the project and organization, rather than by the programmer's familiarity or preference. Once established, these standards can be used as a metric to evaluate source code (using manual or automated processes). The CERT(R) Oracle(R) Secure Coding Standard for Java(TM) provides rules designed to eliminate insecure coding practices that can lead to exploitable vulnerabilities. Application of the standard's guidelines will lead to higher-quality systems-robust systems that are more resistant to attack. Such guidelines are required for the wide range of products coded in Java-for devices such as PCs, game players, mobile phones, home appliances, and automotive electronics. After a high-level introduction to Java application security, seventeen consistently organized chapters detail specific rules for key areas of Java development. For each area, the authors present noncompliant examples and corresponding compliant solutions, show how to assess risk, and offer references for further information. Each rule is prioritized based on the severity of consequences, likelihood of introducing exploitable vulnerabilities, and cost of remediation. The standard provides secure coding rules for the Java SE 6 Platform including the Java programming language and libraries, and also addresses new features of the Java SE 7 Platform. It describes language behaviors left to the discretion of JVM and compiler implementers, guides developers in the proper use of Java's APIs and security architecture, and considers security concerns pertaining to standard extension APIs (from the javax package hierarchy).The standard covers security issues applicable to these libraries: lang, util, Collections, Concurrency Utilities, Logging, Management, Reflection, Regular Expressions, Zip, I/O, JMX, JNI, Math, Serialization, and JAXP. Until recently, the Arctic was almost impossible for anyone other than indigenous peoples and explorers to traverse. Pervasive Arctic sea ice and harsh climatological conditions meant that the region was deemed incapable of supporting industrial activity or a Western lifestyle. In the last decade, however, that longstanding reality has been dramatically and permanently altered. Receding sea ice, coupled with growing geopolitical disputes over Arctic resources, territory, and transportation channels, has stimulated efforts to exploit newly-open waterways, to identify and extract desirable resources, and to leverage industrial, commercial, and transportation opportunities emerging throughout the region. This book presents papers from the NATO Advanced Research Workshop (ARW) Governance for Cyber Security and Resilience in the Arctic. Held in Rovaniemi, Finland, from 27-30 January 2019, the workshop brought together top scholars in cybersecurity risk assessment, governance, and resilience to discuss potential analytical and governing strategies and offer perspectives on how to improve critical Arctic infrastructure against various human and natural threats. The book is organized in three sections according to topical group and plenary discussions at the meeting on: cybersecurity infrastructure and threats, analytical strategies for infrastructure threat absorption and resilience, and legal frameworks and governance options to promote cyber resilience.

Summaries and detailed analysis are included within each section as summary chapters in the book. The book provides a background on analytical tools relevant to risk and resilience analytics, including risk assessment, decision analysis, supply chain management and resilience analytics. It will allow government, native and civil society groups, military stakeholders, and civilian practitioners to understand better on how to enhance the Arctic's resilience against various natural and anthropogenic challenges. Updated annually, the Information Security Management Handbook, Sixth Edition, Volume 6 is the most comprehensive and up-to-date reference available on information security and assurance. Bringing together the knowledge, skills, techniques, and tools required of IT security professionals, it facilitates the up-to-date understanding required to stay This book examines complex challenges in managing major strategic economic and social infrastructure projects. It is divided into four primary themes: value-based approach to infrastructure systems appraisal, enabling planning and execution, financing and contracting strategies for infrastructure systems and digitising major infrastructure delivery. Within these four themes, the chapters of the book cover: the value and benefits of infrastructure projects planning for resilient major infrastructure projects sustainable major infrastructure development and management, including during mega events improving infrastructure project financing stakeholder engagement and multi-partner collaborations delivering major infrastructure projects effectively and efficiently whole-life-cycle performance, operations and maintenance relationship risks on major infrastructure projects public-private partnerships, design thinking principles, and innovation and technology. By drawing on insights from their research, the editors and contributors bring a fresh perspective to the transformation of major strategic infrastructure projects. This text is designed to help policymakers and investors select and prioritise their infrastructure needs beyond the constraining logic of political cycles. It offers a practical set of recommendations for governments on attracting private capital for infrastructure projects while creating clear social and economic value for their citizens. Through theoretical underpinning, empirical data and in-depth informative global case studies, the book presents an essential resource for students, researchers, practitioners and policymakers interested in all aspects of strategic infrastructure planning, project management, construction management, engineering and business management. Updated annually, the Information Security Management Handbook, Sixth Edition, Volume 6 is the most comprehensive and up-to-date reference available on information security and assurance. Bringing together the knowledge, skills, techniques, and tools required of IT security professionals, it facilitates the up-to-date understanding required to stay one step ahead of evolving threats, standards, and regulations. Reporting on the latest developments in information security and recent changes to the (ISC)2® CISSP Common Body of Knowledge (CBK®), this volume features new information on advanced persistent threats, HIPAA requirements, social networks, virtualization, and SOA. Its comprehensive coverage touches on all the key areas IT security professionals need to know, including: Access Control: Technologies and administration including the requirements of current laws Telecommunications and Network Security: Addressing the Internet, intranet, and extranet Information Security and Risk Management: Organizational culture, preparing for a security audit, and the risks of social media Application Security: Ever-present malware threats and building security into the development process Security Architecture and Design: Principles of design including zones of trust Cryptography: Elliptic curve cryptosystems, format-preserving encryption Operations Security: Event analysis Business Continuity and Disaster Recovery Planning: Business continuity in the cloud Legal, Regulations, Compliance, and Investigation: Persistent threats and incident response in the virtual realm Physical Security: Essential aspects of physical security The ubiquitous nature of computers and networks will always provide the opportunity and means to do harm. This edition updates its popular predecessors with the information you need to address the vulnerabilities created by recent innovations such as cloud computing, mobile banking, digital wallets, and near-field communications. This handbook is also available on CD.

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