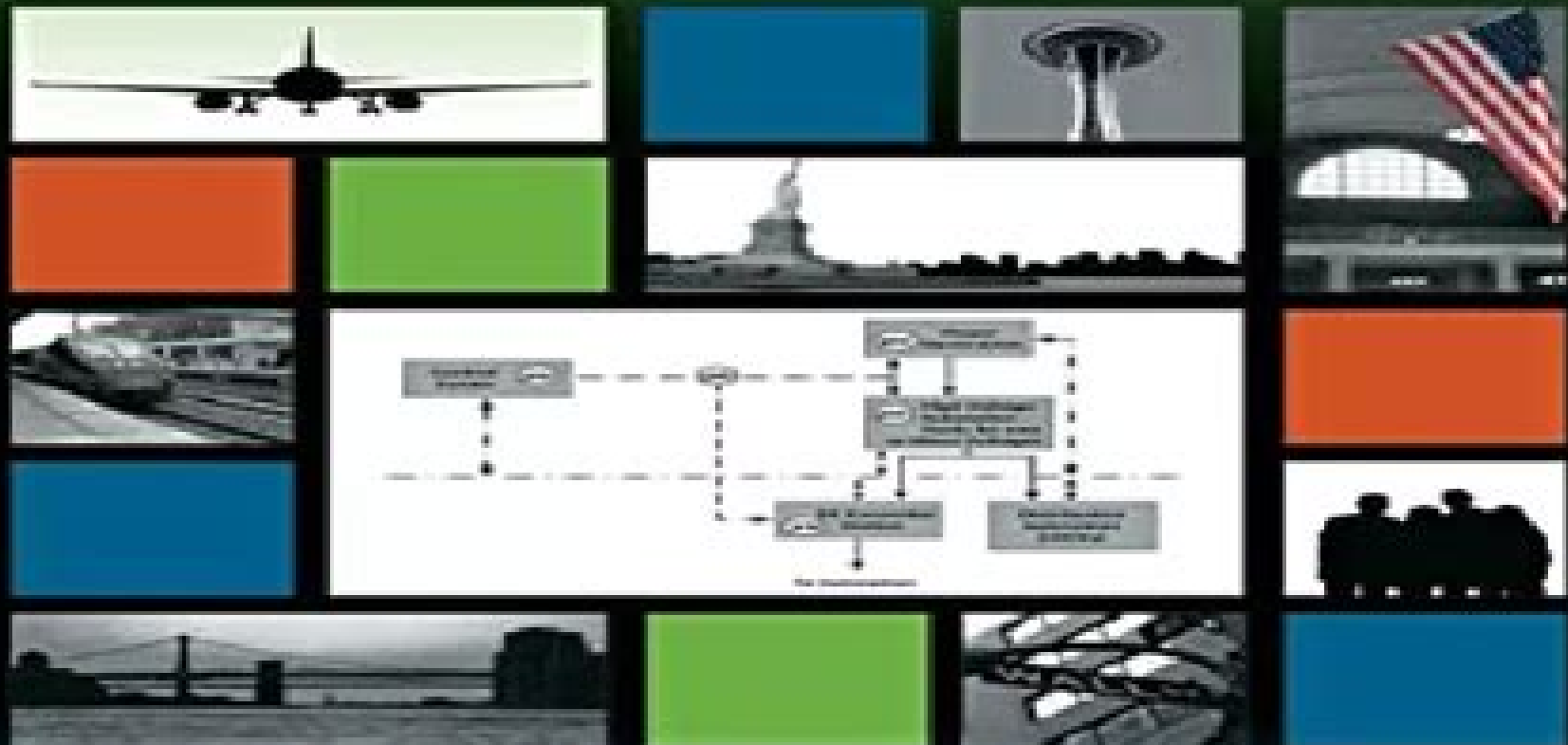


Critical Infrastructure System Security and Resiliency



Betty E. Biringer • Eric D. Vugrin • Drake E. Warren

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Ying Liu

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Critical Infrastructure System Security and Resiliency Betty Biringir, Eric Vugrin, Drake Warren, 2013-04-12 Security protections for critical infrastructure nodes are intended to minimize the risks resulting from an initiating event whether it is an intentional malevolent act or a natural hazard With an emphasis on protecting an infrastructure's ability to perform its mission or function **Critical Infrastructure System Security and Resiliency** presents a practical methodology for developing an effective protection system that can either prevent undesired events or mitigate the consequences of such events Developed at Sandia National Labs the authors analytical approach and methodology enables decision makers and security experts to perform and utilize risk assessments in a manner that extends beyond the theoretical to practical application These protocols leverage expertise in modeling dependencies optimizing system resiliency for effective physical protection system design and consequence mitigation The book begins by focusing on the design of protection strategies to enhance the robustness of the infrastructure components The authors present risk assessment tools and necessary metrics to offer guidance to decision makers in applying sometimes limited resources to reduce risk and ensure operational resiliency Our critical infrastructure is vast and made up of many component parts In many cases it may not be practical or affordable to secure every infrastructure

node For years experts as a part of the risk assessment process have tried to better identify and distinguish higher from lower risks through risk segmentation In the second section of the book the authors present examples to distinguish between high and low risks and corresponding protection measures In some cases protection measures do not prevent undesired events from occurring In others protection of all infrastructure components is not feasible As such this section describes how to evaluate and design resilience in these unique scenarios to manage costs while most effectively ensuring infrastructure system protection With insight from the authors decades of experience this book provides a high level practical analytical framework that public and private sector owners and operators of critical infrastructure can use to better understand and evaluate infrastructure security strategies and policies Strengthening the entire homeland security enterprise the book presents a significant contribution to the science of critical infrastructure protection and resilience Resilience of Critical Infrastructure Systems Zhishen Wu,Xilin Lu,Mohammad Noori,2020-04-28 With rapid urbanization in developing countries and the emergence of smart systems and integrated intelligent devices the new generation of infrastructure will be smarter and more efficient However due to natural and anthropomorphic hazards as well as the adverse impact of climate change civil infrastructure systems are increasingly vulnerable Therefore future proofing and designing resilience into infrastructure is one of the biggest challenges facing the industry and governments in all developing and industrialized societies This book provides a comprehensive overview of infrastructure resiliency new developments in this emerging field and its scopes including ecology and sustainability and the challenges involved in building more resilient civil infrastructure systems Moreover it introduces a strategic roadmap for effective and efficient methods needed for modeling designing and assessing resiliency Features Includes contributions from internationally recognized scholars in the emerging field of infrastructure resilience Covers a broad range of topics in infrastructure resilience such as disaster assessment civil infrastructure and lifeline systems natural hazard mitigation and seismic protection Includes practical global case studies and leading edge research from several countries Presents an interdisciplinary approach in addressing the challenges in the emerging field of infrastructure resilience Resilience of Critical Infrastructure Systems Emerging Developments and Future Challenges serves as a valuable resource for practicing professionals researchers and advanced students seeking practical forward looking guidance **Critical Information Infrastructures Security** Erich Rome,Marianthi Theocharidou,Stephen Wolthusen,2016-05-17 This book constitutes revised selected papers from the 10th International Conference on Critical Information Infrastructures Security CRITIS 2015 held in Berlin Germany in October 2015 The 18 full and 6 short papers presented in this volume were carefully reviewed and selected from 54 submissions They are organized in topical sections named critical information infrastructure protection critical infrastructure resilience assessment emergency management critical infrastructure preparedness modelling simulation and analysis approaches electric grid protection and resilience and CIPRNet young CRITIS award candidate papers **Resilient Control Architectures and Power Systems** Craig

Rieger, Ronald Boring, Brian Johnson, Timothy McJunkin, 2021-12-02 Master the fundamentals of resilient power grid control applications with this up to date resource from four industry leaders Resilient Control Architectures and Power Systems delivers a unique perspective on the singular challenges presented by increasing automation in society In particular the book focuses on the difficulties presented by the increased automation of the power grid The authors provide a simulation of this real life system offering an accurate and comprehensive picture of a how a power control system works and even more importantly how it can fail The editors invite various experts in the field to describe how and why power systems fail due to cyber security threats human error and complex interdependencies They also discuss promising new concepts researchers are exploring that promise to make these control systems much more resilient to threats of all kinds Finally resilience fundamentals and applications are also investigated to allow the reader to apply measures that ensure adequate operation in complex control systems Among a variety of other foundational and advanced topics you ll learn about The fundamentals of power grid infrastructure including grid architecture control system architecture and communication architecture The disciplinary fundamentals of control theory human system interfaces and cyber security The fundamentals of resilience including the basis of resilience its definition and benchmarks as well as cross architecture metrics and considerations The application of resilience concepts including cyber security challenges control challenges and human challenges A discussion of research challenges facing professionals in this field today Perfect for research students and practitioners in fields concerned with increasing power grid automation Resilient Control Architectures and Power Systems also has a place on the bookshelves of members of the Control Systems Society the Systems Man and Cybernetics Society the Computer Society the Power and Energy Society and similar organizations *Sustainable and Resilient Critical Infrastructure Systems*

Kasthurirangan Gopalakrishnan, Srinivas Peeta, 2010-04-13 Sustainable and resilient critical infrastructure systems is an emerging paradigm in an evolving era of depleting assets in the midst of natural and man made threats to provide a sustainable and high quality of life with optimized resources from social economic societal and environmental considerations The increasing complexity and interconnectedness of civil and other interdependent infrastructure systems electric power energy cyber infrastructures etc require inter and multidisciplinary expertise required to engineer monitor and sustain these distributed large scale complex adaptive infrastructure systems This edited book is motivated by recent advances in simulation modeling sensing communications information and intelligent and sustainable technologies that have resulted in the development of sophisticated methodologies and instruments to design characterize optimize and evaluate critical infrastructure systems their resilience and their condition and the factors that cause their deterioration Specific topics discussed in this book include but are not limited to optimal infrastructure investment allocation for sustainability framework for manifestation of tacit critical infrastructure knowledge interdependencies between energy and transportation systems for national long term planning intelligent transportation infrastructure technologies emergent research issues in infrastructure

interdependence research framework for assessing the resilience of infrastructure and economic systems maintenance optimization for heterogeneous infrastructure systems optimal emergency infrastructure inspection scheduling and sustainable rehabilitation of deteriorated transportation infrastructure systems

System of System Failures Takafumi Nakamura, 2018-05-09 This book provides the application of praxes in the field of engineering safety by learning from previous system failures And it addresses the most recent developments in the theoretical and practical aspects of these important fields which due to their special nature bring together in a systematic way many disciplines of engineering from the traditional to the most technologically advanced The authors of these chapters are involved in using the system thinking and system engineering approaches at the scale of increased complexity and advanced computational solutions to such systems The chapters cover the areas such as failure assessment in aeronautical engineering seismic resistance of offshore pipeline engineering electrical engineering critical infrastructure failure and system of system theory

Safety and Reliability. Theory and Applications Marko Cepin, Radim Bris, 2017-06-14 Safety and Reliability Theory and Applications contains the contributions presented at the 27th European Safety and Reliability Conference ESREL 2017 Portoro Slovenia June 18 22 2017 The book covers a wide range of topics including Accident and Incident modelling Economic Analysis in Risk Management Foundational Issues in Risk Assessment and Management Human Factors and Human Reliability Maintenance Modeling and Applications Mathematical Methods in Reliability and Safety Prognostics and System Health Management Resilience Engineering Risk Assessment Risk Management Simulation for Safety and Reliability Analysis Structural Reliability System Reliability and Uncertainty Analysis Selected special sessions include contributions on the Marie Skłodowska Curie innovative training network in structural safety risk approaches in insurance and finance sectors dynamic reliability and probabilistic safety assessment Bayesian and statistical methods reliability data and testing organizational factors and safety culture software reliability and safety probabilistic methods applied to power systems socio technical economic systems advanced safety assessment methodologies extended Probabilistic Safety Assessment reliability availability maintainability and safety in railways theory big data risk analysis and management and model based reliability and safety engineering Safety and Reliability Theory and Applications will be of interest to professionals and academics working in a wide range of industrial and governmental sectors including Aeronautics and Aerospace Automotive Engineering Civil Engineering Electrical and Electronic Engineering Energy Production and Distribution Environmental Engineering Information Technology and Telecommunications Critical Infrastructures Insurance and Finance Manufacturing Marine Industry Mechanical Engineering Natural Hazards Nuclear Engineering Offshore Oil and Gas Security and Protection Transportation and Policy Making

The Security of Critical Infrastructures Marcus Matthias Keupp, 2020-05-05 This book analyzes the security of critical infrastructures such as road rail water health and electricity networks that are vital for a nation's society and economy and assesses the resilience of these networks to intentional attacks The book combines the

analytical capabilities of experts in operations research and management economics risk analysis and defense management and presents graph theoretical analysis advanced statistics and applied modeling methods In many chapters the authors provide reproducible code that is available from the publisher s website Lastly the book identifies and discusses implications for risk assessment policy and insurability The insights it offers are globally applicable and not limited to particular locations countries or contexts Researchers intelligence analysts homeland security staff and professionals who operate critical infrastructures will greatly benefit from the methods models and findings presented While each of the twelve chapters is self contained taken together they provide a sound basis for informed decision making and more effective operations policy and defense

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