

### Level 3

- Degree Centrality ( $A_d$ )
- Betweenness Centrality ( $A_b$ )
- Closeness Centrality ( $A_c$ )

- Node Total Number ( $B_{\text{total}}$ )
- Infrastructures Diversity ( $B_{\text{diversity}}$ )

- Risk Graph Value ( $C_{\text{rg}}$ )

- Risk Value ( $D_{\text{risk}}$ )
- Total Energy Consumption ( $D_{\text{ec}}$ )
- Flood Level ( $D_{\text{fl}}$ )
- Population ( $D_{\text{population}}$ )
- Poverty Percent ( $D_{\text{poverty}}$ )
- Total Electricity Consumption ( $D_{\text{tec}}$ )

### Level 2

Centrality  
Measures

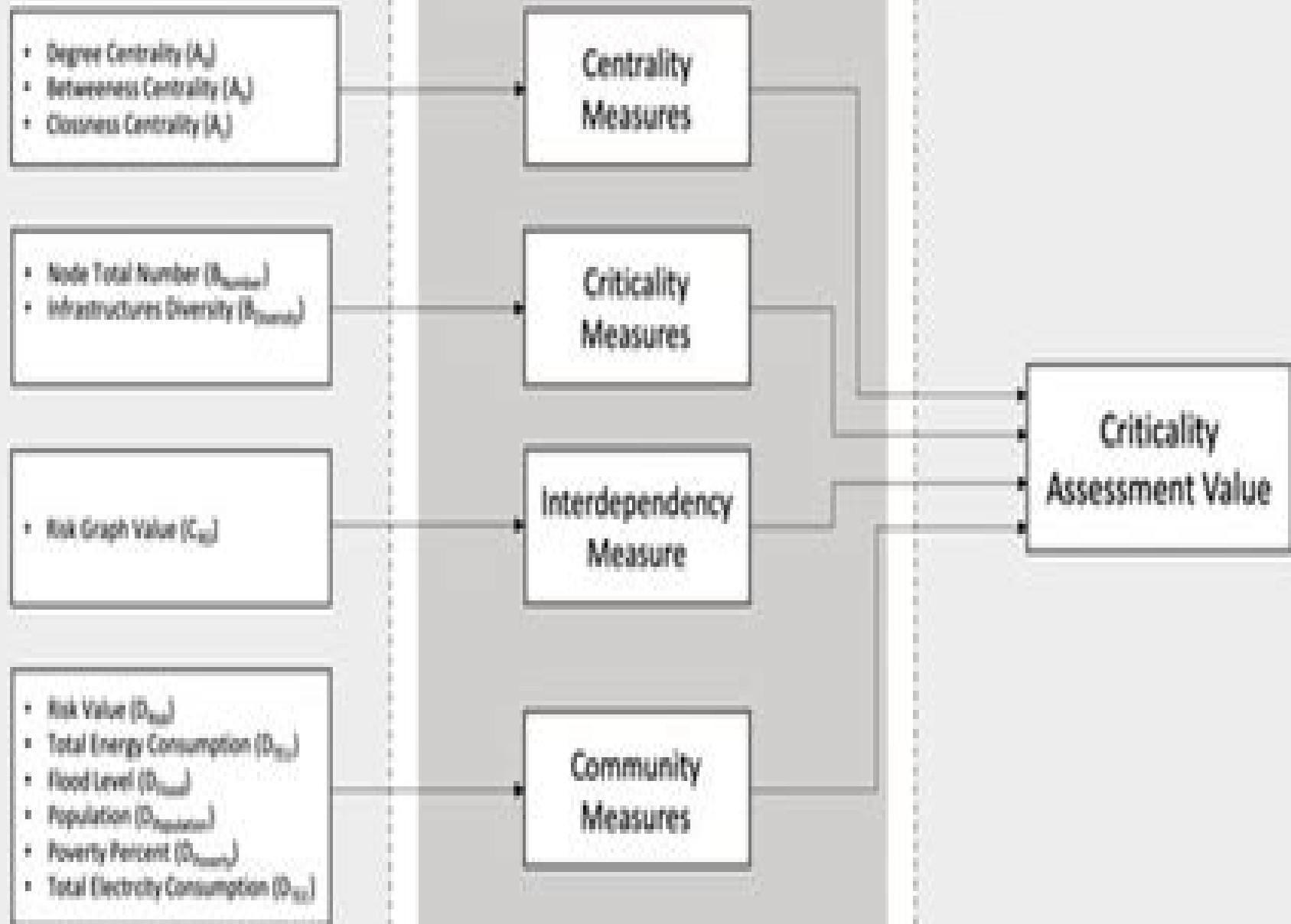
Criticality  
Measures

Interdependency  
Measure

Community  
Measures

### Level 1

Criticality  
Assessment Value



# Critical Infrastructures At Risk Critical Infrastructures At Risk

**Igor Linkov, Richard J.  
Wenning, Gregory A. Kiker**



## **Critical Infrastructures At Risk Critical Infrastructures At Risk:**

### **Critical Infrastructure Protection, Risk Management, and Resilience** Kelley A. Pesch-Cronin, Nancy E.

Marion, 2016-12-19 Critical Infrastructure Protection and Risk Management covers the history of risk assessment critical infrastructure protection and the various structures that make up the homeland security enterprise The authors examine risk assessment in the public and private sectors the evolution of laws and regulations and the policy challenges facing the 16 critical infrastructure sectors The book will take a comprehensive look at the issues surrounding risk assessment and the challenges facing decision makers who must make risk assessment choices *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 Critical Infrastructures at Risk A.V. Gheorghe, M. Masera, M.

Weijnen, L.J. De Vries, 2006-02-15 Europe witnessed in the last years a number of significant power contingencies Some of them revealed the potentiality of vast impact on the welfare of society and triggered pressing questions on the reliability of electric power systems Society has incorporated electricity as an inherent component indispensable for achieving the expected level of quality of life Therefore any impingement on the continuity of the electricity service would be able to distress society as a whole affecting individuals social and economic activities other infrastructures and essential government functions It would be possible to hypothesize that in extreme situations this could even upset national security This book explores the potential risks and vulnerabilities of the European electricity infrastructure other infrastructures and our society as whole increasingly depend on The work was initiated by the need to verify the potential effects of the ongoing market and technical transformation of the infrastructure which is fundamentally changing its operation and performance The final aim is to set the basis for an appropriate industrial and political European wide response to the risk challenges **Securing 'the Homeland'** Myriam Anna Dunn, Kristian Soby Kristensen, 2020-04-28 This edited volume uses a constructivist reflexive approach to address critical infrastructure protection CIP a central political practice associated with national security The politics of CIP and the construction of the threat they are meant to counter effectively establish a powerful discursive

connection between that the traditional and normal conditions for day to day politics and the exceptional dynamics of national security Combining political theory and empirical case studies this volume addresses key issues related to protection and the governance of insecurity in the contemporary world The contributors track the transformation and evolution of critical infrastructures and closely related issues of homeland security into a security problem and analyze how practices associated with CIP constitute and are an expression of changing notions of security and insecurity The book explores aspects of securitisation as well as at practices audiences and contexts that enable and constrain the production of the specific form of governmentality that CIP exemplifies It also explores the rationalities at play the effects of these security practices and the implications for our understanding of security and politics today

*Risk and Interdependencies in Critical Infrastructures* Per Hokstad, Ingrid B. Utne, Jørn Vatn, 2012-12-18 Today s society is completely dependent on critical networks such as water supply sewage electricity ICT and transportation Risk and vulnerability analyses are needed to grasp the impact of threats and hazards However these become quite complex as there are strong interdependencies both within and between infrastructure systems *Risk and Interdependencies in Critical Infrastructures* A guideline for analysis provides methods for analyzing risks and interdependencies of critical infrastructures A number of analysis approaches are described and are adapted to each of these infrastructures Various approaches are also revised and all are supported by several examples and illustrations Particular emphasis is given to the analysis of various interdependencies that often exist between the infrastructures *Risk and Interdependencies in Critical Infrastructures* A guideline for analysis provides a good tool to identify the hazards that are threatening your infrastructures and will enhance the understanding on how these threats can propagate throughout the system and also affect other infrastructures thereby identifying useful risk reducing measures It is essential reading for municipalities and infrastructure owners that are obliged to know about and prepare for the risks and vulnerabilities of the critical infrastructures for which they are responsible

**Critical Infrastructures at Risk** A.V. Gheorghe, M. Masera, M. Weijnen, 2006-01-27 Europe witnessed in the last years a number of significant power contingencies Some of them revealed the potentiality of vast impact on the welfare of society and triggered pressing questions on the reliability of electric power systems Society has incorporated electricity as an inherent component indispensable for achieving the expected level of quality of life Therefore any impingement on the continuity of the electricity service would be able to distress society as a whole affecting individuals social and economic activities other infrastructures and essential government functions It would be possible to hypothesize that in extreme situations this could even upset national security This book explores the potential risks and vulnerabilities of the European electricity infrastructure other infrastructures and our society as whole increasingly depend on The work was initiated by the need to verify the potential effects of the ongoing market and technical transformation of the infrastructure which is fundamentally changing its operation and performance The final aim is to set the basis for an appropriate industrial and political European wide response to the risk challenges

*Risk Management and Critical Infrastructure Protection* John Moteff, 2005 The 9 11 Commission recommended that efforts to protect various modes of transportation and allocation of federal assistance to state and local governments should be based on an assessment of risk In doing so the Commission was reiterating existing federal policy regarding the protection of all the nation s critical infrastructures The Homeland Security Act of 2002 P L 107 296 and other Administration documents have assigned the Department of Homeland Security specific duties associated with coordinating with the nation s efforts to protect its critical infrastructures including using a risk management approach to set priorities Many of these duties have been delegated to the Information Analysis and Infrastructure Protection IA IP Directorate Risk assessment involves the integration of threat vulnerability and consequence information Risk management involves deciding which protective measures to take based on an agreed upon risk reduction strategy Many models methodologies have been developed by which threats vulnerabilities and risks are integrated and then used to inform the allocations of resources to reduce those risks For the most part these methodologies consist of the following elements performed more or less in the following order 1 identify assets and identify which are most critical 2 identify characterize and assess threats 3 assess the vulnerability of critical assets to specific threats 4 determine the risk i e the expected consequences of specific types of attacks on specific assets 5 identify ways to reduce those risks and 6 prioritize risk reduction measures based on a strategy The IA IP Directorate has been accumulating a list of infrastructure assets specific sites and facilities From this list the Directorate is selecting assets that have been judged to be critical from a national point of view The Directorate intends to assess the vulnerability of all assets on this shorter list According to Directorate officials vulnerability assessments and threat information are considered when determining the risk watch asset poses to the nation The risk assessment is then used to prioritize subsequent additional protection activities The IA IP Directorate s efforts to date however raise several concerns ranging from the process and criteria used to populate its lists of assets its prioritization strategy and the extent to which the Directorate is coordinating its efforts with the intelligence community and other agencies both internal and external to the Department This report will be updated as needed

European Critical Infrastructure Protection Alessandro Lazari, 2014-07-25 The recent European Council Directive 114 08 requested the EU Member States to perform an assessment aimed at the identification and designation of the so called European Critical Infrastructures ECI Every analysis of the results of the first round of identifications and designations has only taken into account the numbers of ECIs effectively designated consequently leaving aside all of the other elements related to this important path towards a harmonized vision of the European Security This work with its unprecedented approach focuses on the elements that have maximized or frustrated the ambitious European objectives and on the issues that might have prevented the directive reaching its full potential Furthermore the study offers an in depth perspective on the lessons learned including those that can be learned from the US pre post 9 11 CIP policies as well as an assessment of the state of play of the Member States after the implementation of the

directive together with predictions for future challenges

### **Issues on Risk Analysis for Critical Infrastructure**

**Protection** Vittorio Rosato, Antonio Di Pietro, 2021-07-07 Critical infrastructure provides essential services to citizens. The mutual dependencies of services between systems form a complex system of systems with a large perturbation surface prone to be damaged by natural and anthropic events. Their intrinsic and extrinsic vulnerabilities could be overcome by providing them adaptive properties to allow fast and effective recovery from loss of functionality. Resilience is thus the key issue and its enhancement at the systemic level is a priority goal to be achieved. This volume reviews recent insights into the different domains: resilience enhancing strategies, impact and threats, knowledge and dependency related issues, and proposes new strategies for better critical infrastructure protection.

**Critical Infrastructure Risk Assessment** Ernie Hayden, MIPM, CISSP, CEH, GICSP(Gold), PSP, 2020-08-25 ASIS Book of The Year Winner as selected by ASIS International, the world's largest community of security practitioners. Critical Infrastructure Risk Assessment wins 2021 ASIS Security Book of the Year Award. SecurityInfoWatch and Threat Reduction Handbook by Ernie Hayden. PSP Rothstein Publishing was selected as its 2021 ASIS Security Industry Book of the Year. As a manager or engineer, have you ever been assigned a task to perform a risk assessment of one of your facilities or plant systems? What if you are an insurance inspector or corporate auditor? Do you know how to prepare yourself for the inspection, decide what to look for and how to write your report? This is a handbook for junior and senior personnel alike on what constitutes critical infrastructure and risk and offers guides to the risk assessor on preparation, performance and documentation of a risk assessment of a complex facility. This is a definite must read for consultants, plant managers, corporate risk managers, junior and senior engineers and university students before they jump into their first technical assignment.

**OECD Reviews of Risk Management Policies: Good Governance for Critical Infrastructure Resilience** OECD, 2019-04-17 Critical infrastructures are the backbone of modern interconnected economies. The disruption of key systems and essential services such as telecommunications, energy or water supply, transportation or finance can cause substantial economic damage. This report looks at how to boost critical infrastructure resilience in a dynamic risk landscape and discusses policy options and governance models to promote up front resilience investments.

### Critical Infrastructures: Risk and Vulnerability Assessment in Transportation of Dangerous Goods Bogdan I.

Vamanu, Adrian V. Gheorghe, Polinapilinho F. Katina, 2016-04-02 This book addresses a key issue in today's society: the safer transport of dangerous goods, taking into account people, the environment and economics. In particular, it offers a potential approach to identifying the issues, developing the models, providing the methods and recommending the tools to address the risks and vulnerabilities involved. We believe this can only be achieved by assessing those risks in a comprehensive, quantifiable and integrated manner. Examining both rail and road transportation, the book is divided into three sections covering the mature and accepted by both academia and practitioners methodology of risk assessment, the vulnerability assessment, a novel approach proposed as a vital complement to risk guidance and support to build the tools that make

methods and equations to yield the Decision Support Systems Throughout the book the authors do not endeavor to provide THE solution Instead the book offers insightful food for thought for students researchers practitioners and policymakers alike

Critical Infrastructure Risk Assessment Ernie Hayden, MIPM, CISSP, CEH, GICSP(Gold), PSP,2020-08-25 As a manager or engineer have you ever been assigned a task to perform a risk assessment of one of your facilities or plant systems What if you are an insurance inspector or corporate auditor Do you know how to prepare yourself for the inspection decided what to look for and how to write your report This is a handbook for junior and senior personnel alike on what constitutes critical infrastructure and risk and offers guides to the risk assessor on preparation performance and documentation of a risk assessment of a complex facility This is a definite must read for consultants plant managers corporate risk managers junior and senior engineers and university students before they jump into their first technical assignment

**Managing Critical Infrastructure Risks** Igor Linkov,Richard J. Wenning,Gregory A. Kiker,2007-09-17 This book offers a state of the science approach to current environmental security threats and infrastructure vulnerabilities It emphasizes beliefs that the convergence of seemingly disparate viewpoints and often uncertain and limited information is possible only by using one or more available risk assessment methodologies and decision making tools such as risk assessment and multi criteria decision analysis MCDA

*Space Infrastructures: From Risk to Resilience Governance* U. Tatar,A.V. Gheorghe,O.F. Keskin,2020-04-17 Space critical infrastructures represent an interdependent system of systems consisting of workforce environment facilities and multidirectional interactions These are essential for the maintenance of vital societal functions such as health safety security mobility and the economic and social well being of people and their destruction or disruption would have a significant impact on society as a whole In all 79 nations and government consortia currently operate satellites with 11 countries operating 22 launch sites Despite creating new challenges this multi actor environment offers opportunities for international cooperation but making the most of these opportunities requires a holistic approach to space critical infrastructure away from strictly defined space technologies and towards understanding the resilience of complex systems and how they are intertwined in reality This book presents papers from the NATO Advanced Research Workshop ARW entitled Critical Space Infrastructure From Vulnerabilities and Threats to Resilience held in Norfolk Virginia USA from 21 22 May 2019 The ARW brought together representatives from academia industry and international organizations in an effort to deepen scientific and technological understanding of space critical infrastructures and explore the implications for national and international space security and resilience It examined space as a critical infrastructure from a multidisciplinary perspective in accordance with NATO s Strategic Concept The 29 chapters in the book are divided into six sections covering space infrastructure governance cybersecurity risk resiliency and complexity emerging technologies such as block chain artificial intelligence and quantum computing application domains and national approaches and applications

**Critical Infrastructures Resilience** Auroop Ratan Ganguly,Udit Bhatia,Stephen E. Flynn,2018-02-21 This text offers comprehensive

and principled yet practical guidelines to critical infrastructures resilience Extreme events and stresses including those that may be unprecedented but are no longer surprising have disproportionate effects on critical infrastructures and hence on communities cities and megaregions Critical infrastructures include buildings and bridges dams levees and sea walls as well as power plants and chemical factories besides lifeline networks such as multimodal transportation power grids communication and water or wastewater The growing interconnectedness of natural built human systems causes cascading infrastructure failures and necessitates simultaneous recovery This text explores the new paradigm centered on the concept of resilience by approaching the challenges posed by globalization climate change and growing urbanization on critical infrastructures and key resources through the combination of policy and engineering perspectives It identifies solutions that are scientifically credible data driven and sound in engineering principles while concurrently informed by and supportive of social and policy imperatives Critical Infrastructures Resilience will be of interest to students of engineering and policy

**Critical Infrastructures, Key Resources, Key Assets** Adrian V. Gheorghe, Dan V. Vamanu, Polin papilinho F. Katina, Roland Pulfer, 2017-11-12 In the face of increasing failures comments attributed to Albert Einstein loom large We cannot solve our problems with the same thinking we used when we created them There is a pervasive feeling that any attempt to make sense of the current terrain of complex systems must involve thinking outside the box and originating unconventional approaches that integrate organizational managerial social political cultural and human aspects and their interactions This textbook offers research based models and tools for diagnosing and predicting the behavior of complex techno socio economic systems in the domain of critical infrastructures key resources key assets and the open bazaar of space undersea and below ground systems These models exemplify emblematic models in physics within which the critical infrastructures as well as society itself and its paraphernalia share the profile of many body systems featuring cooperative phenomena and phase transitions the latter usually felt as disruptive occurrences The book and its models focus on the analytics of real life business actors including policy makers financiers and insurers industry managers and emergency responders

**Critical Infrastructure Protection X** Mason Rice, Sujeet Sheno, 2016-11-07 The information infrastructure comprising computers embedded devices networks and software systems is vital to day to day operations in every sector information and telecommunications banking and finance energy chemicals and hazardous materials agriculture food water public health emergency services transportation postal and shipping government and defense Global business and industry governments indeed society itself cannot function effectively if major components of the critical information infrastructure are degraded disabled or destroyed Critical Infrastructure Protection describes original research results and innovative applications in the interdisciplinary field of critical infrastructure protection Also it highlights the importance of weaving science technology and policy in crafting sophisticated yet practical solutions that will help secure information computer and network assets in the various critical infrastructure sectors Areas of coverage include themes and issues control systems



security infrastructure modeling and simulation risk and impact assessment This book is the tenth volume in the annual series produced by the International Federation for Information Processing IFIP Working Group 11 10 on Critical Infrastructure Protection an international community of scientists engineers practitioners and policy makers dedicated to advancing research development and implementation efforts focused on infrastructure protection The book contains a selection of fourteen edited papers from the Tenth Annual IFIP WG 11 10 International Conference on Critical Infrastructure Protection held at SRI International Arlington Virginia USA in the spring of 2016 Critical Infrastructure Protection is an important resource for researchers faculty members and graduate students as well as for policy makers practitioners and other individuals with interests in homeland security Critical Infrastructure Protection NATO Advanced Research Workshop on Critical Infrastructure Protection, IOS Press, 2014-01-03 The issue of protecting essential infrastructure against the threat of terrorist attack is one which continues to concern governments worldwide But terrorism is not the only threat this infrastructure may face environmental hazards industrial accidents and sabotage are also major concerns Protecting critical infrastructure is expensive but many of the solutions apply whatever the cause of the problem and in these days of scarce resources multi sector or multi threat solutions are preferred This book presents the proceedings of the NATO Centre of Excellence Defence against Terrorism COE DAT Advanced Research Workshop entitled Critical Infrastructure Protection held in Ankara Turkey in May 2012 The workshop brought together 44 participants from 13 countries and consisted of five sessions a general overview of policy tools and techniques the realities of implementation protection of energy infrastructure protection of communications and information infrastructure and protection of transport infrastructure The papers were presented by 16 expert speakers military and civilian practitioners business leaders diplomats and academics from 6 countries and each was followed by a detailed discussion and debate The workshop concluded with a summary of all the topics reflected in the individual papers presented This book represents a significant contribution to furthering the science of counterterrorism and will be of interest to all whose work involves all aspects of Critical Infrastructure Protection and the terrorist threat to infrastructure **Critical Infrastructure** Tyson Macaulay, 2008-08-27 Critical Infrastructure CI is fundamental to the functioning of a modern economy and consequently maintaining CI security is paramount However despite all the security technology available for threats and risks to CI this crucial area often generates more fear than rational discussion Apprehension unfortunately prompts many involved in CI p

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