Shield Your Infrastructure: Securing Critical Networks for Smart Grids, SCADA, and Beyond

In today's interconnected world, our critical infrastructure networks—including smart grids, SCADA systems, and other vital systems—are under constant threat from cyberattacks. Securing these networks is of paramount importance to ensure the safety, reliability, and efficiency of our energy, water, and transportation systems.

Industrial Network Security: Securing Critical Infrastructure Networks for Smart Grid, SCADA, and Other Industrial Control Systems by Eric D. Knapp

★★★★☆ 4.5 out of 5

Language	: English
File size	: 14567 KB
Text-to-Speech	: Enabled
Enhanced typesetting	: Enabled
Print length	: 423 pages
Screen Reader	: Supported

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This comprehensive book provides industry-leading insights, strategies, and best practices for securing critical infrastructure networks. Drawing upon decades of experience in cybersecurity and critical infrastructure protection, the authors share their expert knowledge to help you:

* Understand the unique challenges of securing critical infrastructure networks * Develop and implement a comprehensive security strategy *

Implement specific security measures for smart grids, SCADA systems, and other critical infrastructure systems * Stay ahead of emerging threats and protect your networks from future attacks

Chapter Overview

Chapter 1: The Evolving Threat Landscape This chapter explores the evolving threat landscape facing critical infrastructure networks, including the latest cyber threats and attack vectors.

Chapter 2: Understanding Critical Infrastructure Networks This chapter provides a detailed overview of the critical infrastructure networks that are essential to our modern society, including their unique characteristics and security requirements.

Chapter 3: Developing a Comprehensive Security Strategy This chapter outlines the steps involved in developing a comprehensive security strategy for critical infrastructure networks, including risk assessment, threat analysis, and security planning.

Chapter 4: Implementing Specific Security Measures This chapter provides practical guidance on implementing specific security measures for critical infrastructure networks, including access control, network segmentation, and intrusion detection.

Chapter 5: Smart Grid Security This chapter focuses on the specific security challenges and best practices for protecting smart grids, including smart meters, distributed energy resources, and communication networks.

Chapter 6: SCADA Security This chapter provides a deep dive into SCADA security, including the unique vulnerabilities of SCADA systems and strategies for mitigating risks.

Chapter 7: Protecting Other Critical Infrastructure Systems This chapter explores the security challenges and best practices for protecting other critical infrastructure systems, such as water distribution systems, transportation networks, and financial systems.

Chapter 8: Staying Ahead of Emerging Threats This chapter examines the emerging threats to critical infrastructure networks and discusses strategies for staying ahead of the curve.

About the Authors

Dr. Eric Knapp is a leading expert in cybersecurity and critical infrastructure protection. He is the author of numerous books and articles on these topics and has served as a consultant to government agencies and private organizations around the world.

Dr. Jennifer De Cicco is a cybersecurity researcher and practitioner with extensive experience in critical infrastructure protection. She is a frequent speaker at industry conferences and has published numerous articles on cybersecurity.

Securing Critical Infrastructure Networks For Smart Grid Scada And Other is the definitive guide to protecting these essential networks from cyberattacks. This book is a must-read for anyone responsible for the security of critical infrastructure.

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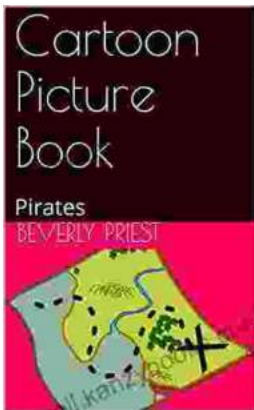
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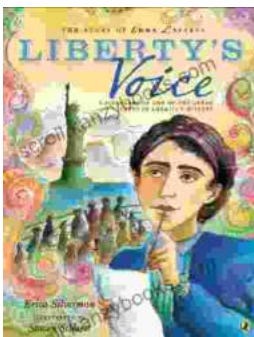
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