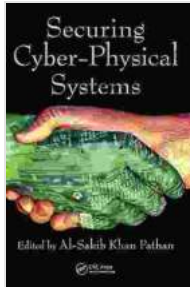# Securing Cyber Physical Systems: A Comprehensive Guide to Protecting Critical Infrastructure by Al Sakib Khan Pathan

In the era of rapidly advancing technology, cyber physical systems (CPSs) have emerged as a cornerstone of our modern infrastructure. These systems seamlessly integrate physical processes with computational and communication capabilities, enabling the creation of smart cities, self-driving cars, and automated manufacturing facilities. However, this interconnectedness also introduces a heightened risk of cyber threats, making the security of CPSs paramount.

In his groundbreaking book, Securing Cyber Physical Systems, Al Sakib Khan Pathan provides a comprehensive guide to safeguarding these critical systems from malicious actors. With over a decade of experience in cybersecurity and critical infrastructure protection, Pathan offers a unique perspective on the challenges and solutions associated with securing CPSs.

Securing Cyber Physical Systems is divided into three parts, each covering a distinct aspect of CPS security. Part 1 provides an overview of CPSs, their applications, and the unique security challenges they face. Part 2 delves into the technical details of CPS security, including threat modeling, risk assessment, and security measures. Part 3 focuses on the management and governance of CPS security, including policy development, incident response, and regulatory compliance.

Securing Cyber-Physical Systems by Al-Sakib Khan Pathan

★★★★★ 5 out of 5

Language : English

File size : 27185 KB

Print length : 444 pages

Throughout the book, Pathan emphasizes the importance of a holistic approach to CPS security. He argues that securing CPSs requires a collaboration between stakeholders from various disciplines, including cybersecurity experts, engineers, policymakers, and business leaders.
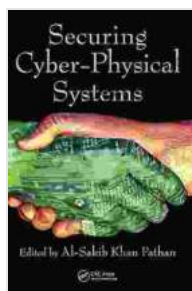
- **Comprehensive coverage:** Securing Cyber Physical Systems covers all aspects of CPS security, from threat modeling to incident response.

- **Practical guidance:** The book provides practical guidance on how to implement security measures and manage CPS security risks.

- **Real-world examples:** Pathan uses real-world examples to illustrate the challenges and solutions associated with securing CPSs.

- **Multidisciplinary approach:** The book draws on multiple disciplines, including cybersecurity, engineering, policy, and business, to provide a holistic view of CPS security.

- **Up-to-date information:** The book includes the latest research and developments in CPS security.

Securing Cyber Physical Systems is an essential resource for anyone involved in the security of critical infrastructure. This includes:

- Cybersecurity professionals

- Engineers

- Policymakers

- Business leaders

- Students and researchers

Al Sakib Khan Pathan is a leading expert in cybersecurity and critical infrastructure protection. He has over a decade of experience in the field, and has worked with governments, businesses, and international organizations to improve the security of critical infrastructure. Pathan is the author of several books and articles on cybersecurity, and is a frequent speaker at industry conferences.

Securing Cyber Physical Systems is a must-read for anyone involved in the security of critical infrastructure. Pathan's comprehensive and practical guide provides the knowledge and tools needed to protect these critical systems from malicious actors.

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