Cybersecurity for Industrial Control Systems: SCADA, DCS, PLC, HMI, and SIS

Tyson Macaulay, Bryan L. Singer

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As industrial control systems (ICS), including SCADA, DCS, and other process control networks, become Internet-facing, they expose crucial services to attack. Threats like Duqu, a sophisticated worm found in the wild that appeared to share portions of its code with the Stuxnet worm, emerge with increasing frequency.

Explaining how to develop and implement an effective cybersecurity program for ICS, **Cybersecurity for Industrial Control Systems: SCADA, DCS, PLC, HMI, and SIS** provides you with the tools to ensure network security without sacrificing the efficiency and functionality of ICS.

Highlighting the key issues that need to be addressed, the book begins with a thorough introduction to ICS. It discusses business, cost, competitive, and regulatory drivers and the conflicting priorities of convergence. Next, it explains why security requirements differ from IT to ICS. It differentiates when standard IT security solutions can be used and where SCADA-specific practices are required.

The book examines the plethora of potential threats to ICS, including hi-jacking malware, botnets, spam engines, and porn dialers. It outlines the range of vulnerabilities inherent in the ICS quest for efficiency and functionality that necessitates risk behavior such as remote access and control of critical equipment. Reviewing risk assessment techniques and the evolving risk assessment process, the text concludes by examining what is on the horizon for ICS security, including IPv6, ICSv6 test lab designs, and IPv6 and ICS sensors.

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Cybersecurity for Industrial Control Systems: SCADA, DCS, PLC, HMI, and SIS can be one of your beginner books that are good idea. Many of us recommend that straight away because this publication has good vocabulary that can increase your knowledge in vocab, easy to understand, bit entertaining but nevertheless delivering the information. The writer giving his/her effort that will put every word into joy arrangement in writing Cybersecurity for Industrial Control Systems: SCADA, DCS, PLC, HMI, and SIS but doesn't forget the main level, giving the reader the hottest along with based confirm resource information that maybe you can be certainly one of it. This great information can drawn you into brand-new stage of crucial contemplating.

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