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By Ronald L Krutz



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The use of cyber warfare as a prelude or substitute for conventional attacks has gone from conjecture to reality. The obvious targets of such assaults are a nation's defense establishment, critical infrastructure, and production capabilities. Contrary to popular opinion, there are effective, structured defenses against such aggression, if they are conscientiously and properly implemented and maintained. This text merges the fundamentals of information system security and the unique requirements of industrial automation and control systems and presents a clear and implementable formula to defend crucial elements, such as refineries, chemical plants, manufacturing operations, power plants and pipelines. This work develops a novel protection approach based on the merging of the best relevant and proven government and industry standards, resulting in a practical instrument that can be straightforwardly applied to secure our valuable resources. - See more at:

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Editorial Review

From the Back Cover

The use of cyber warfare as a prelude or substitute for conventional attacks has gone from conjecture to reality. The obvious targets of such assaults are a nation's defense establishment, critical infrastructure, corporate intellectual property, government databases, and production capabilities. Contrary to popular opinion, there are effective, structured defenses against such aggression, but they must be conscientiously and properly implemented and maintained.

This text builds on the established fundamentals of information system security, examines the extant and emerging standards and guidelines from a variety of respected sources, and addresses the unique requirements of industrial automation and control systems. It presents a clear and implementable formula to defend crucial elements such as refineries, chemical plants, manufacturing operations, power plants, transportation systems, and pipelines. This work develops a novel protection approach based on the merging of the best relevant and proven government and industry standards, resulting in a practical instrument that can be straightforwardly applied to secure our valuable resources.

About the Author

Dr. Krutz is Chief Scientist for Security Risk Solutions, Inc. He has over thirty years of experience in industrial automation and control systems, distributed computing systems, computer architectures, information assurance methodologies, and information security training. He has been a Senior Information Security Consultant at Lockheed Martin, BAE Systems, and REALTECH Systems Corporation, an Associate Director of the Carnegie Mellon Research Institute (CMRI), and a professor in the Carnegie Mellon University Department of Electrical and Computer Engineering. He was also a lead instructor for (ISC)2 Inc. in its Certified Information Systems Security Professionals (CISSP) training seminars. Dr. Krutz founded the CMRI Cybersecurity Center and was founder and Director of the CMRI Computer, Automation and Robotics Group. He coauthored the CISSP Prep Guide for John Wiley and Sons and is coauthor of the Wiley Advanced CISSP Prep Guide; the CISSP Prep Guide, Gold Edition; the Security + Certification Guide; the CISM Prep Guide; the CISSP Prep Guide, 2nd Edition: Mastering CISSP and ISSEP (Information Systems Security Engineering Professional); the Network Security Bible; the CISSP and CAP (Certification and Accreditation Professional) Prep Guide, Platinum Edition: Mastering CISSP and CAP; the Certified Ethical Hacker (CEH) Prep Guide; Cloud Computing Security; and Web Commerce Security. He is also the author of Securing SCADA Systems and of three textbooks in the areas of microcomputer system design, computer interfacing and computer architecture. Dr. Krutz has seven patents in the area of digital systems and has published more than 340 technical papers.

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