Guide to Network Security

By Michael E. Whitman, Herbert J. Mattord, David Mackey, Andrew Green

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GUIDE TO NETWORK SECURITY is a wide-ranging new text that provides a detailed review of the network security field, including essential terminology, the history of the discipline, and practical techniques to manage implementation of network security solutions. It begins with an overview of information, network, and web security, emphasizing the role of data communications and encryption. The authors then explore network perimeter defense technologies and methods, including access controls, firewalls, VPNs, and intrusion detection systems, as well as applied cryptography in public key infrastructure, wireless security, and web commerce. The final section covers additional topics relevant for information security practitioners, such as assessing network security, professional careers in the field, and contingency planning. Perfect for both aspiring and active IT professionals, GUIDE TO NETWORK SECURITY is an ideal resource for readers who want to help organizations protect critical information assets and secure their systems and networks, both by recognizing current threats and vulnerabilities, and by designing and developing the secure systems of the future.

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Editorial Review

Review
"The writing style flows well and is appropriate for various levels of students in the area of reading comprehension and technical experience."

About the Author
Michael Whitman, Ph.D., CISM, CISSP, is Professor of Information Security at Kennesaw State University, Kennesaw, Georgia. He also serves as the Executive Director of the Center for Information Security Education, Coles College of Business. In 2004, 2007, 2012 and 2015, under his direction the Center for Information Security Education spearheaded KSU's successful bid for the prestigious National Center of Academic Excellence recognitions (CAE/IAE and CAE IA/CDE), awarded jointly by the Department of Homeland Security and the National Security Agency. Dr. Whitman is also the Editor-in-Chief of the Journal of Cybersecurity Education, Research and Practice, and is Director of the Southeast Collegiate Cyber Defense Competition. Dr. Whitman is an active researcher and author in Information Security Policy, Threats, Curriculum Development, and Ethical Computing. He currently teaches graduate and undergraduate courses in Information Security. Dr. Whitman has several information security textbooks currently in print, including PRINCIPLES OF INFORMATION SECURITY; MANAGEMENT OF INFORMATION SECURITY; READINGS AND CASES IN THE MANAGEMENT OF INFORMATION SECURITY, VOLUMES I AND II; THE HANDS-ON INFORMATION SECURITY LAB MANUAL; PRINCIPLES OF INCIDENT RESPONSE AND DISASTER RECOVERY; and THE GUIDE TO NETWORK SECURITY AND THE GUIDE TO FIREWALLS AND NETWORK SECURITY. He has published articles in Information Systems Research, the Communications of the ACM, the Journal of International Business Studies, Information and Management, and the Journal of Computer Information Systems. Dr. Whitman is a member of the Association for Computing Machinery, the Information Systems Security Association, ISACA and the Association for Information Systems. Previously, Dr. Whitman served the U.S. Army as an Automated Data Processing System Security Officer (ADPSSO).

Herbert Mattord, Ph.D., CISM, CISSP, completed 24 years of IT industry experience as an application developer, database administrator, project manager, and information security practitioner before joining the faculty at Kennesaw State University, where he is Assistant Chair of the Department of Information Systems and Associate Professor of Information Security and Assurance program. Dr. Mattord currently teaches graduate and undergraduate courses in Information Security and Assurance as well as Information Systems. He and Michael Whitman have authored PRINCIPLES OF INFORMATION SECURITY, MANAGEMENT OF INFORMATION SECURITY, READINGS AND CASES IN THE MANAGEMENT OF INFORMATION SECURITY, PRINCIPLES OF INCIDENT RESPONSE AND DISASTER RECOVERY, THE GUIDE TO NETWORK SECURITY, and THE HANDS-ON INFORMATION SECURITY LAB MANUAL, Dr. Mattord is an active researcher, author, and consultant in Information Security Management and related topics. He has published articles in the Information Resources Management Journal, Journal of Information Security Education, the Journal of Executive Education, and the International Journal of Interdisciplinary Telecommunications and Networking. Dr. Mattord is a member of the Information Systems Security Association, ISACA, and the Association for Information Systems. During his career as an IT practitioner, Dr. Mattord was an adjunct professor at Kennesaw State University, Southern Polytechnic State University in Marietta, Georgia, Austin Community College in Austin, Texas, and Texas State University: San Marcos. He was formerly the Manager of Corporate Information Technology Security at Georgia-Pacific Corporation, where he acquired much of the practical knowledge found in this and his other textbooks.

David Mackey, CISSP, is director of security operations consulting at ArcSight and an adjunct faculty member at the University of Colorado Boulder, where he teaches graduate courses in information security. Mr. Mackey has over 15 years of IT and information security experience and currently leads a group that helps customers build or improve their security intelligence capabilities. Prior to his IT career, Mr. Mackey served as an intelligence specialist in the U.S. Army. He has written a textbook on web security and contributed to a number of additional books and papers.

Andrew Green, M.S.I.S., is a lecturer of information security and assurance in the CSIS department at Kennesaw State University and a research associate with the KSU Center for Information Security Education and Awareness. He was also one of the principal designers of the Southeast Collegiate Cyberdefense Competition, hosted annually by KSU. Before entering academia full-time, Green worked for 10 years as an information security professional, primarily as a consultant to small and medium-sized businesses, as well as a healthcare IT specialist. In the latter role, he developed and supported transcription interfaces for medical facilities throughout the United States. Green is also a full-time Ph.D. student at Nova Southeastern University, where he is studying information systems with a concentration in information security, as well as the co-author of multiple books published by Course Technology.

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