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Telecommunications Sector; 2.5.3 Future Research Direction; 2.5.4 The Prospects for the Future; References; Further Reading; Chapter 3 Wireless Security; 3.1 Scientific Overview; 3.1.1 Voice-Centric Networks; 3.1.2 Data-Centric Networks; 3.2 Mobile and Wireless Security Landscape; 3.2.1 Federal Legislation and Regulation 3.2.2 Federal Standards and Guidance Publications 3.2.3 Industry Standards and Guidance Organizations; 3.2.4 Governmental Wireless Communications Initiatives; 3.3 Critical Needs Analysis; 3.3.1 Intrusion Prevention Systems; 3.3.2 Internet-Based Security Protocols; 3.4 Research Directions; 3.4.1 Intrusion Prevention Systems; 3.4.2 Internet-Based Security Protocols; 3.4.3 Overlaying Security Services over IP-based Access Networks; 3.4.4 Mobile Device Security; References; Further Reading; Chapter 4 Detection of Hidden Information, Covert Channels and Information Flows; 4.1 Introduction 4.2 Scientific Overview 4.2.1 Hiding Information; 4.3 Countermeasures; 4.3.1 Countermeasures: Detection; 4.3.2 Countermeasures: Disruption; 4.4 Research and Development Trends; 4.4.1 Research Trends; 4.4.2 Development Trends; 4.5 Critical Needs Analysis; 4.6 Research Directions; References; Further Reading; Other Suggested Reading; Chapter 5 Inherently Secure Next-Generation Computing and Communication Networks for Reducing Cascading Impacts; 5.1 Introduction; 5.2 Standards, Guidelines, and Best Practices; 5.3 Standards; 5.3.1 Guidelines; 5.4 Best Practice 5.4.1 Cyber and Control Systems Security Standards in Common Use

Sommario/riassunto

Communication and Information Systems Security features articles from the Wiley Handbook of Science and Technology for Homeland Security covering strategies for protecting the telecommunications sector, wireless security, advanced web based technology for emergency situations. Science and technology for critical infrastructure consequence mitigation are also discussed.
