Security for Multihop Wireless Networks

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Security for Multihop Wireless Networks provides broad coverage of the security issues facing multihop wireless networks. Presenting the work of a different group of expert contributors in each chapter, it explores security in mobile ad hoc networks, wireless sensor networks, wireless mesh networks, and personal area networks.

Detailing technologies and processes that can help you secure your wireless networks, the book covers cryptographic coprocessors, encryption, authentication, key management, attacks and countermeasures, secure routing, secure medium access control, intrusion detection, epidemics, security performance analysis, and security issues in applications. It identifies vulnerabilities in the physical, MAC, network, transport, and application layers and details proven methods for strengthening security mechanisms in each layer.

The text explains how to deal with black hole attacks in mobile ad hoc networks and describes how to detect misbehaving nodes in vehicular ad hoc networks. It identifies a pragmatic and energy efficient security layer for wireless sensor networks and covers the taxonomy of security protocols for wireless sensor communications.

Exploring recent trends in the research and development of multihop network security, the book outlines possible defenses against packet-dropping attacks in wireless multihop ad hoc networks.Complete with expectations for the future in related areas, this is an ideal reference for researchers, industry professionals, and academics. Its comprehensive coverage also makes it suitable for use as a textbook in graduate-level electrical engineering programs.

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