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Sommario/riassunto

An examination of unique security problems posed by wireless ad hoc networks and their solutions Security for Wireless Ad hoc Networks helps pave the way for the commercialization of wireless ad hoc networks by addressing the unique security risks that these networks raise. The author team offers a critical analysis of existing research findings and also discusses the direction and preliminary findings of ongoing research. Readers learn the advantages and disadvantages of the leading proposed security schemes. Moreover, readers are given the tools they need to assess the security implications of the protocols they design. This text begins with a discussion outlining the threats, attacks, and vulnerabilities inherent in ad hoc wireless networks. Next, the authors introduce basic security concepts that serve as a foundation for the text's examination of strategies and techniques forsecuring the network. Among the topics presented are: . Basic cryptography mechanisms. Key management. Secure routing. Intrusion detection. Security policy management. Secure location determination Given both the promise and the risk associated with wireless ad hoc networks, this text is essential reading for all engineers and other professionals tasked with designing and securing wireless ad hoc networks.