1.	Record Nr.	UNINA9911049104303321
	Autore	Biswas Suparna
	Titolo	Adhoc and Sensor Networks: Security and Applications / / by Suparna Biswas, Chandreyee Chowdhury, Sarmistha Neogy
	Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2026
	ISBN	981-9558-39-5
	Edizione	[1st ed. 2026.]
	Descrizione fisica	1 online resource (215 pages)
	Collana	Studies in Systems, Decision and Control, , 2198-4190 ; ; 653
	Disciplina	004.6
	Soggetti	Computer networks
		Wireless communication systems
		Mobile communication systems
		Computer networks - Security measures
		Telecommunication
		Computer Communication Networks
		Wireless and Mobile Communication
		Mobile and Network Security
		Communications Engineering, Networks
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	Chapter 1: Introduction -- Chapter 2: Applications of Wireless Networks -- Chapter 3: Architectures -- Chapter 4: Protocols -- Chapter 5: Fault Tolerant Network -- Chapter 6: Security attacks, threats and vulnerabilities in Wireless Sensor Networks, IoT, Adhoc Networks -- Chapter 7: Trust and light weight cryptography techniques -- Chapter 8: Case Studies -- Chapter 9: Demonstration of smart healthcare system prototype using IoT Application -- Chapter 10: Conclusions.
	Sommario/riassunto	This book aims to trace the evolution of computer networks from their inception to their current advanced forms, highlighting key characteristics, issues, and challenges associated with widely used modern networks. It provides a comprehensive introduction and overview of advanced network fundamentals, effectively demonstrated through architecture, protocols, security, and contemporary

applications. The book addresses performance-related concerns such as security, trust, privacy, fault tolerance, energy efficiency, and routing, examined from the perspective of specific network types and applications. It is enriched with case studies and prototype developments of smart applications, including architecture, algorithm modeling, and implementation, offering readers both theoretical insights and practical understanding. Each chapter includes a dedicated problem section featuring brainstorming exercises designed to encourage readers to explore and build a complete understanding of the subject matter, both in terms of study and application. This approach aims to make the book more engaging and intellectually stimulating for readers. .