1.	Record Nr.	UNINA9910865291003321
	Autore	Gong Wei
	Titolo	Practical Backscatter Communication for the Internet of Things / / by Wei Gong, Jiangchuan Liu, Weiqi Wu
	Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
	ISBN	9783031592546 3031592549
	Edizione	[1st ed. 2024.]
	Descrizione fisica	1 online resource (115 pages)
	Collana	SpringerBriefs in Computer Science, , 2191-5776
	Altri autori (Persone)	LiuJiangchuan WuWeiqi
	Disciplina	004.6
	Soggetti	Computer networks Wireless communication systems Mobile communication systems Cooperating objects (Computer systems) Computer Communication Networks Wireless and Mobile Communication Cyber-Physical Systems
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	Chapter 1 Introduction -- Chapter 2 Reliable Backscatter for Remote Physical Condition Monitoring -- Chapter 3 Spectrum-efficient Backscatter for Smart Homes -- Chapter 4 Cross-technology Backscatter for Smart Health Monitoring -- Chapter 5 Concurrent Backscatter for Smart Logistics -- Chapter 6 Summary and Future Directions.
	Sommario/riassunto	This book is devoted to offering a comprehensive and detailed discussion of the design of high-reliability, high-efficiency spectrum utilization, cross-technology support and concurrent backscatter schemes. It begins with the introductory Chapter 1, introducing the background of backscatter communication, including its concepts and characteristics. Then it highlights the potential IoT applications assisted by backscatter communication. The importance of high-reliability, high-efficiency spectrum utilization, cross-technology and concurrent

backscatter schemes is emphasized to actualize these applications. Chapters 2 thru 5 discuss in detail how to achieve reliable backscatter (Chapter 2), spectrum-efficient backscatter (Chapter 3), cross-technology backscatter (Chapter 4) and concurrent backscatter (Chapter 5). Chapter 6 summarizes this book and provides a vision for future research directions to bring a broad class of IoT applications into our everyday lives. This book targets scientists, researchers, engineers and advanced-level students studying or working in pervasive computing, IoT, backscatter communication and other related areas. Professionals working in this related field will also want to purchase this book finding it a valuable resource.