1. Record Nr. UNINA9910299897503321

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Titolo	Antenna Design Solutions for RFID Tags Based on Metamaterial-Inspired Resonators and Other Resonant Structures / / by Simone Zuffanelli
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-62030-4
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XIII, 149 p. 87 illus., 39 illus. in color.)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5053
Disciplina	621.384192
Soggetti	Microwaves Optical engineering Electronics Microelectronics Optical materials Electronics - Materials Microwaves, RF and Optical Engineering Electronics and Microelectronics, Instrumentation Optical and Electronic Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Introduction -- Radiation Properties of Edge-coupled Split-ring Resonators (EC-SRRs) and Derived Structures -- Antenna and UHF-RFID Tag Design based on Split-ring Resonators and Derived Structures -- A High-Gain Passive UHF-RFID Tag with Increased Read Range -- Conclusions and Future Work.
Sommario/riassunto	This book describes innovative design solutions for radio-frequency identification (RFID) tags and antennas. Focusing mainly on passive ultra-high-frequency (UHF)-RFID tag antennas, it examines novel approaches based on the use of metamaterial-inspired resonators and other resonant structures as radiating elements. It also offers an exhaustive analysis of the radiation properties of several metamaterial-inspired resonators such as the split ring resonator (SRR) and related

structures. Further, it discusses in detail an innovative technology for the RFID tagging of optical discs, which has demonstrated a significant improvement over the state of the art and resulted in a patent. By covering the entire research cycle of theory, design/simulation and fabrication/evaluation of RFID tags and antennas, while also reporting on cutting-edge technologies, the book provides graduate students, researchers and practitioners alike with a comprehensive and timely overview of RFID systems, and a closer look at several radiating structures.