Record Nr.	UNINA9910829875903321
Titolo	Antenna and array technologies for future wireless ecosystems / / edited by Y. Jay Guo and Richard W. Ziolkowski
Pubbl/distr/stampa	Hoboken, New Jersey : , : IEEE Press : , : Wiley, , [2022] ©2022
ISBN	1-119-81391-3 1-119-81389-1
Descrizione fisica	1 online resource (483 pages)
Disciplina	TK7871.6
Soggetti	Antennas (Electronics)
	Antenna arrays
	Wireless communication systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Matter Surface-Wave Based Metasurface Antennas / Enrica Martini, Marco Faenzi, David Gonzlez-Ovejero, Stefano Maci Techniques for Designing High Gain and Two-Dimensional Beam Scanning Antennas for 5 G / Raj Mittra, Abdelkhalek Nasri, Ravi K Arya, Prashant Chaudhary, James R Kelly, Shaker Alkaraki, Alejandro L Borja Low-Cost Beam-Reconfigurable Directional Antennas for Advanced Communications / Qi Luo, Steven Gao, Xue-xia Yang, Josaphat T Sri Sumantyo Smart Leaky-Wave Antennas for Iridescent IoT Wireless Networks / Jos L Gmez-Tornero Antenna-in-Package Design for Wireless System on a Chip / Y P Zhang Terahertz Lens Antennas / Geng-Bo Wu, Kwun Wing Cheung, Ka Fai Chan, Chi Hou Chan Photonics-Based Millimeter-Wave Band Remote Beamforming of Antenna Arrays Integrated with Photodiodes / Shigeyuki Akiba, Jiro Hirokawa Contemporary Array Analysis Using Embedded Element Patterns / David B Davidson, Karl F Warnick Angle-of-Arrival Estimation in Large-Scale Hybrid Antenna Arrays / Kai Wu, Y Jay Guo Electrically Small Antenna Advances for Current 5G and Evolving 6G and Beyond Wireless Systems / Richard W Ziolkowski Overview of Rydberg Atom-Based Sensors/Receivers for the Measurement of

1.

	Electric Fields, Power, Voltage, and Modulated Signals / Christopher L Holloway, Matthew T Simons, Alexandra B Artusio-Glimpse, Joshua A Gordon Quantum Antenna Arrays / ligo Liberal, Richard W Ziolkowski.
Sommario/riassunto	Ziolkowski. ANTENNA AND ARRAY TECHNOLOGIES FOR FUTURE WIRELESS ECOSYSTEMS Discover a timely and accessible resource on the latest antenna research driving new developments in the field In Antenna and Array Technologies for Future Wireless Ecosystems, distinguished academics and authors Drs. Y. Jay Guo and Richard W. Ziolkowski deliver a cutting-edge resource for researchers, academics, students, and engineers who need the latest research findings on the newest challenges facing antenna designers who will be creating the technology that drives future 6G and beyond wireless systems and networks. This timely and impactful book offers the fundamental knowledge that will facilitate new research activities in the antennas and applied electromagnetics communities, and conveys innovative and practical solutions to many wireless industry problems. Its international cohort of leading authors delivers their findings on a variety of advanced topics in antenna and array research, including metasurface antennas; electrically small directive antennas; RF, millimeter-wave and THz antennas and arrays; atom-based sensors, and arrays of quantum emitters. The book also includes resources that cover the important topics: A thorough introduction to various intelligent and low-cost beam scanning, beamforming and beam-reconfigurable array technologies to support dynamic networking of future systems An exploration of advanced techniques for analyzing large arrays, as well as an examination of advanced antenna-in-package technologies for future mm-wave systems Discussions of the latest research on electrically small and extremely large hybrid antenna arrays, and photonic beamforming networks to address spectrum scarcity in future systems Low form-factor, low energy-consumption, and wireless power transfer antennas for the Internet of Things (IoT) This book is the companion of the Wiley book by the same authors, Advanced Antenna Array Engineering for GG and Beyond Wireless Communications. Perfect for antenn
	studying antenna engineering applied electromagnetics and seeking a one-stop reference for state-of-the-art global antenna and antenna array research activities.