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Descrizione fisica	1 online resource (xxxii, 288 pages) : illustrations (some color)
Collana	Wiley - IEEE
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Soggetti	5G mobile communication systems Multiple access protocols (Computer network protocols)
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Nota di contenuto	About the editors -- Preface -- Part 1: Waveforms and Mixed-Numerology -- Ch 1: ICI Cancellation Techniques Based on Data Repetition for OFDM Systems -- Ch 2: Generalized Frequency Division Multiplexing: Unified Multicarrier Framework -- Ch 3: Offset Quadrature Amplitude Modulation based Filter Bank Multicarrier System -- Ch 4: Low Electromagnetic Emission Wireless Network Technologies 5G and Beyond -- Ch 5: Filtered OFDM: an Insight into Intrinsic In-Band Interference -- Ch 6: Multi-Numerology Waveform Parameter Assignment in 5G -- Part 2: RAN Slicing and 5G vertical industries -- Ch 7: Network Slicing with Spectrum Sharing -- Ch 8: Access Control and Handoff Policy Design for RAN slicing -- Ch 9: Robust RAN Slicing -- Ch 10: Flexible function split over Ethernet Enabling RAN Slicing -- Ch 11: Service oriented RAN Support of Network Slicing -- Ch 12: 5G Network Slicing for V2X Communications: Technologies and Enablers -- Ch 13: Optimizing Resource Allocation in URLLC for Real-Time Wireless Control Systems
Sommario/riassunto	"Future wireless communication systems are expected to provide services to various vastly different applications, ranging from Internet of Things (IoT), mobile broadband, to vehicle to vehicle (V2V)

communications. This book explores recent advances in theory and practice of radio access network slicing for 5G and beyond communication system to support various industrial sectors including manufacturing, entertainment, public safety, public transport, healthcare, financial services, automotive and energy utilities. The book covers four aspects; physical waveforms design, multiple service signals coexistence, Radio Access Network Slicing (RAN) slicing and virtualization, and applications to the vertical industries. This timely book proposes to address a challenging research issue of the radio slices co-existence of various communication services with vastly different requirements coving 5G defined all three main communication scenarios. This is a very important topic as network slicing has been focused on core network function virtualisation to date and this is a pioneering research from radio air-interface perspective to achieve the true end-to-end configurable network slicing for the future diverse radio system. This book has the potential to influence 5G-and-beyond standards pertaining to the radio access schemes envisioned for use beyond 2020"--