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Nota di contenuto	MIMO Antennas: A 5G Communication Perspective -- Pilot Contamination in Massive MIMO Communications -- Detection Techniques in Uplink Massive MIMO Systems -- Index Modulation Techniques for 5G and Beyond Wireless Systems -- Sparse Code Hybrid Multiple Access Techniques -- Implementation of Non-Orthogonal Multiple Access Schemes under Practical Impairments.
Sommario/riassunto	This book presents the fundamental concepts, recent advancements, and opportunities for future research in various key enabling technologies in next-generation wireless communications. The book serves as a comprehensive source of information in all areas of wireless communications with a particular emphasis on physical (PHY) layer techniques related to 5G wireless systems and beyond. In particular, this book focuses on different emerging techniques that can be adopted in 5G wireless networks. Some of those techniques include massive-MIMO, mm-Wave communications, spectrum sharing, device-to-device (D2D) and vehicular to anything (V2X) communications, radio-frequency (RF) based energy harvesting, and NOMA. Subsequent

chapters cover the fundamentals and PHY layer design aspects of different techniques that can be useful for the readers to get familiar with the emerging technologies and their applications. .