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Titolo	Architectures of Small-Cell Networks and Interference Management / / by Duy Trong Ngo, Tho Le-Ngoc
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Dense Small-Cell Networks: Motivations and Issues -- Architectures and Interference Management for Small-Cell Networks -- Distributed Interference Management in Heterogeneous CDMA Small-Cell Networks -- Distributed Pareto-Optimal Power Control in Heterogeneous CDMA Small-Cell Networks -- Joint Power and Subchannel Allocation in Heterogeneous OFDMA Small-Cell Networks -- Distributed Resource Allocation in OFDMA Cognitive Small-Cell Networks.
Sommario/riassunto	This Springer Brief presents the architectures of small-cell networks and recent advances in interference management. The key challenges

and values of small cells are first introduced, followed by the reviews of various small-cell architectures and interference management techniques in both heterogeneous CDMA and heterogeneous OFDMA small-cell networks. New adaptive power control and dynamic spectrum access techniques are discussed to promote a harmonized coexistence of diverse network entities in both 3G and 4G small-cell networks. Analytically devised from optimization and game theories, autonomous solutions are shown to effectively manage the intra-tier and cross-tier interferences in small cells. Informative and practical, this Springer Brief is designed for researchers and professionals working in networking and resource management. The content is also valuable for advanced-level students interested in network communications and power allocation.