1. Record Nr. UNINA9910298562503321

Autore	Xu Chen
Titolo	Resource management for device-to-device underlay communication / / Chen Xu, Lingyang Song, Zhu Han
Pubbl/distr/stampa	New York, : Springer Science, 2014
ISBN	1-4614-8193-7
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (vii, 79 pages) : illustrations (some color)
Collana	SpringeBriefs in computer science
Altri autori (Persone)	SongLingyang HanZhu
Disciplina	621.384
Soggetti	Radio resource management (Wireless communication) Wireless communication systems - Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"ISSN: 2191-5768."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Physical-layer Techniques -- Radio Resource Management -- Cross-layer Optimization -- Summary.
Sommario/riassunto	Device-to-Device (D2D) communication will become a key feature supported by next generation cellular networks, a topic of enormous importance to modern communication. Currently, D2D serves as an underlay to the cellular network as a means to increase spectral efficiency. Although D2D communication brings large benefits in terms of system capacity, it also causes interference as well as increased computation complexity to cellular networks as a result of spectrum sharing. Thus, efficient resource management must be performed to guarantee a target performance level of cellular communication. This brief presents the state-of-the-art research on resource management for D2D communication underlaying cellular networks. Those who work with D2D communication will use this book’s information to help ensure their work is as efficient as possible. Along with the survey of existing work, this book also includes the fundamental theories, key techniques, and applications.