1. Record Nr. UNINA9910983320303321

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Titolo	Understanding Satellite Communications: The Stochastic Geometry Perspective / / edited by Shuai Wang, Jinpeng Song, Xiaqing Miao, Gaofeng Pan
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	9789819771028 9789819771011
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (251 pages)
Altri autori (Persone)	SongJinpeng MiaoXiaqing PanGaofeng
Disciplina	621.3
Soggetti	Telecommunication Wireless communication systems Mobile communication systems Microwaves, RF Engineering and Optical Communications Wireless and Mobile Communication
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction to satellite communications -- Satellite to terrestrial communications -- Satellite aerial communications -- Satellite aerial terrestrial communications -- End to end terrestrial satellite terrestrial communications -- Summary.
Sommario/riassunto	This book aims to analyze and model satellite communication systems while taking into account the variable transmission performance that occurs due to randomness in space, aerial, and terrestrial terminals. The book covers both conceptual principles and practical engineering applications, with an emphasis on the latter. Readers will gain a deep understanding of several major topics, including satellite-terrestrial communications, satellite-aerial communications, satellite-aerial-terrestrial communications, and terrestrial-satellite-terrestrial communications. A key feature of this book is its comprehensive and systematic treatment of satellite communication issues, making it an ideal resource for anyone interested in learning about various

application scenarios in this field. Researchers, engineers, and graduate students in wireless communications, signal processing, and related areas will find this book highly valuable.