

1. Record Nr.	UNINA9910847069103321
Autore	Pan Gaofeng
Titolo	UAV Communications: Modeling and Analyses [[electronic resource] /] / edited by Gaofeng Pan, Xiaqing Miao, Xuanhe Yang, Ziyi Yang
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	981-9703-83-2
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (207 pages)
Altri autori (Persone)	MiaoXiaqing YangXuanhe YangZiyi
Disciplina	621.384
Soggetti	Wireless communication systems Mobile communication systems Telecommunication Wireless and Mobile Communication Microwaves, RF Engineering and Optical Communications
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction to UAV Communications -- UAV-Terrestrial Communications -- UAV-to-UAV Communications -- Satellite-UAV Communications -- UAV Relay Communications.
Sommario/riassunto	This book provides a comprehensive treatment of the performance evaluation of UAV communication systems, using stochastic geometry to explore the impact of the random positions of UAVs on transmission performance. The book focuses on engineering practice, with both modeling and analysis of UAV communication systems. It offers an in-depth study of several important UAV communication application scenarios, including UAV-terrestrial communication, UAV-to-UAV communication, satellite-UAV communication, and UAV relay communication. One of the key features of the book is its systematic approach to addressing UAV communication issues and providing practical insights. The book is especially useful for readers interested in learning how to model and analyze the performance of UAV communications systems. It will benefit researchers, engineers, and graduate students in the fields of wireless communications, signal

processing, and related areas.
