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Titolo	Spatial Polarization Characteristics of Radar Antenna : Analysis, Measurement and Anti-jamming Application // by Huanyao Dai, Xuesong Wang, Hong Xie, Shunping Xiao, Jia Luo
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Descrizione fisica	1 online resource (331 pages)
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Soggetti	Microwaves Optical engineering Signal processing Image processing Speech processing systems Mathematical models Microwaves, RF and Optical Engineering Signal, Image and Speech Processing Mathematical Modeling and Industrial Mathematics
Lingua di pubblicazione	Inglese
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Nota di contenuto	Introduction -- Connotation and Representation of Spatial Polarization Characteristic -- Spatial Polarization Characteristics of Aperture Antenna -- Spatial Polarization Characteristics of Phased Array -- Antenna Spatial Polarization Characteristics Measurement and Calibration -- Scattering Matrix Measurement Method Based on Spatial Polarization Characteristics of Antenna -- Blanketing Jamming Countermeasure Method Based on Spatial Polarization Characteristics of Antenna.
Sommario/riassunto	This book presents novel research ideas and offers insights into radar system design, artificial intelligence and signal processing applications. Further, it proposes a new concept of antenna spatial polarization characteristics (SPC), suggesting that the antenna polarization is a function of the spatial direction and providing new ideas for radar

signal processing (RSP) and anti-jamming. It also discusses the design of an advanced signal-processing algorithm, and proposes new polarimetric and anti-jamming methods using antenna inherent properties. The book helps readers discover the potential of radar information processing and improve its anti-interference and target identification ability. It is of interest to university researchers, radar engineers and graduate students in computer science and electronics who wish to learn the core principles, methods, algorithms, and applications of RSP. .
