1. Record Nr. UNINA9910566471103321

Autore	Carlino Elvio
Titolo	Advances in Transmission Electron Microscopy for the Study of Soft and Hard Matter
Pubbl/distr/stampa	Basel, : MDPI - Multidisciplinary Digital Publishing Institute, 2022
Descrizione fisica	1 online resource (134 p.)
Soggetti	History of engineering and technology Materials science Technology: general issues
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This book provides readers with some examples of advanced applications of electron microscopy on organic and inorganic specimens, highlighting out how new original approaches could provide a deeper understanding of the properties of matter and how a transmission electron microscope is not only a microscope but also a flexible tool for tailoring experiments, properly suited, to the issue of interest.

2. Record Nr. UNINA9910337918803321

Autore	Ryzhkov Alexander V
Titolo	Radar Polarimetry for Weather Observations / / by Alexander V. Ryzhkov, Dusan S. Zrnic
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-05093-9
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (497 pages)
Collana	Springer Atmospheric Sciences, , 2194-5217
Disciplina	551.6353
Soggetti	Atmospheric science Meteorology Physical measurements Measurement Physical geography Atmospheric Sciences Measurement Science and Instrumentation Earth System Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter1: Polarization, scattering, and propagation of electromagnetic waves -- Chapter2: Polarimetric Doppler radar -- Chapter3: Scattering by an ensemble hydrometeors - Polarimetric perspective. Chapter4: Microphysical and dielectric properties of hydrometeors -- Chapter5: Polarimetric variables -- Chapter6: Data quality and measurement errors -- Chapter7: Polarimetric “fingerprints” of microphysical processes in clouds and precipitation -- Chapter8: Polarimetric characteristics of deep convective storms -- Chapter9: Polarimetric Classification of radar echo -- Chapter10: Polarimetric measurements of precipitation -- Chapter11: Polarimetric microphysical retrievals.
Sommario/riassunto	This monograph offers a wide array of contemporary information on weather radar polarimetry and its applications. The book tightly connects the microphysical processes responsible for the development and evolution of the clouds’ bulk physical properties to the polarimetric variables, and contains the procedures on how to simulate realistic

polarimetric variables. With up-to-date polarimetric methodologies and applications, the book will appeal to practicing radar meteorologists, hydrologists, microphysicists, and modelers who are interested in the bulk properties of hydrometeors and quantification of these with the goals to improve precipitation measurements, understanding of precipitation processes, or model forecasts.