



Radar Meteorology: A First Course (Hardback)

By Robert M. Rauber, Stephen W. Nesbitt

John Wiley Sons Inc, United States, 2018. Hardback. Condition: New. Language: English . Brand New Book. A comprehensive introduction to the current technology and application of radar in meteorology and atmospheric sciences Written by leading experts in the field, Radar Meteorology, A first Course offers an introduction to meteorological radar systems and applications, with emphasis on observation and interpretation of physical processes in clouds and weather systems. This comprehensive introduction to the subject offers an overview of the quantities essential to radar meteorology including the radar reflectivity factor, and Doppler, dual-polarization, and multi-wavelength radar variables. The authors highlight wind retrieval from single and multiple Doppler radars, precipitation estimation and hydrometeorological applications, with chapters dedicated to interpretation of radar data from warm season mid-latitude severe weather, winter storms, tropical cyclones and more. In addition, Radar Meteorology highlights research applications of this burgeoning technology, exploring dynamic applications such as space-borne and ground-based vertically pointing radar systems, and cloud, airborne and mobile radars. As meteorological radars are increasingly used professionally for weather observation, forecasting and warning, this much-needed text: Presents an introduction to the technical aspects and current application of radar as used in the meteorology and atmospheric sciences Contains full-colour illustrations that...



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