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Nota di contenuto

Polarized radiative transfer in optically active light scattering media -- Advances in spectro-polarimetry of light scattering media -- Light scattering by large bubbles -- Volume scattering function of sea water -- Remote sensing of crystal shapes in ice clouds -- Light scattering in combustion: new developments.

Sommario/riassunto

This book presents a survey of modern theoretical and experimental techniques in studies of light scattering phenomena and radiative transfer processes in random media. It presents reviews on light scattering by sea water and bubbles, and includes a separate chapter addressing studies of the remote sensing of crystalline clouds with a focus on the shape of particles—a parameter rarely studied by passive remote sensing techniques. In particular, it offers a comprehensive analysis of polarized radiative transfer in optically active (e.g., chiral) light scattering media and explores advances in spectro-polarimetry of particulate media. Lastly it discusses new developments in light scattering for combustion monitoring.