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Soggetti	Atmospheric science Geophysics Remote sensing Earth sciences Physics Atmospheric Sciences Geophysics and Environmental Physics Remote Sensing/Photogrammetry Earth Sciences, general Physics, general
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Single light scattering -- 1.2. Scattering of electromagnetic plane waves in radially inhomogeneous media: connections with potential scattering theory -- 2. Radiative transfer and remote sensing -- 2.1. The RAY code for fast and accurate simulation of the vector radiative transfer in atmosphere-land and atmosphere-ocean systems -- 2.2. The general-purpose discrete-ordinate algorithm DISORT for radiative transfer -- 2.3. Genesis and evolution of the use of polarization in remote sensing of atmosphere and ocean -- 2.4. Remote sensing of mixed cloud and aerosol scenes -- 2.5. Evaluations of daily average

direct aerosol-induced radiative forcing from field measurements performed during regional experiments -- 3. Mueller matrix and light reflectance measurements -- 3.1 Principles of the Mueller matrix measurements -- 3.2. Reflectance of various land surface types: bidirectional, spectral, and polarisation properties.

Sommario/riassunto

Light Scattering Reviews (vol.9) is aimed at the description of modern advances in radiative transfer and light scattering. The following topics will be considered: light scattering by atmospheric dust particles and also by inhomogeneous scatterers, the general - purpose discrete - ordinate algorithm DISORT for radiative transfer, the radiative transfer code RAY based on the adding-doubling solution of the radiative transfer equation, aerosol and cloud remote sensing, use of polarization in remote sensing, direct aerosol radiative forcing, principles of the Mueller matrix measurements, light reflectance from various land surfaces. This volume will be a valuable addition to already published volumes 1-8 of Light Scattering Reviews.
