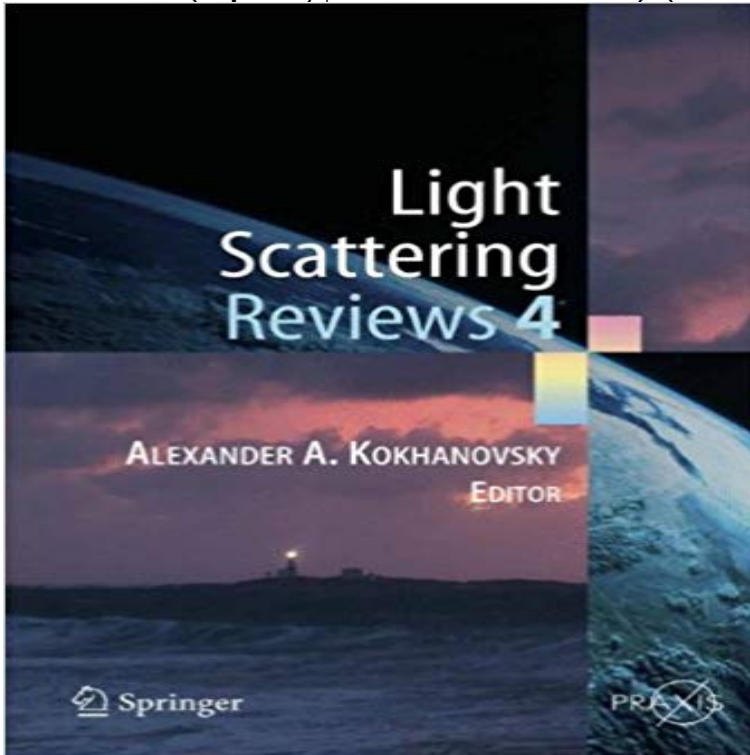


Light Scattering Reviews 4: Single Light Scattering and Radiative Transfer (Springer Praxis Books) (No. 4)



This fourth volume of Light Scattering Reviews is composed of three parts. The first part is concerned with theoretical and experimental studies of single light scattering by small nonspherical particles. Light scattering by small particles such as, for instance, droplets in the terrestrial clouds is a well understood area of physical optics. On the other hand, exact theoretical calculations of light scattering patterns for most of nonspherical and irregularly shaped particles can be performed only for the restricted values of the size parameter, which is proportional to the ratio of the characteristic size of the particle to the wavelength. For the large nonspherical particles, approximations are used (e. g. , ray optics). The exact theoretical techniques such as the T-matrix method cannot be used for extremely large particles, such as those in ice clouds, because then the size parameter in the $x = 2\pi a/\lambda$, where a is the characteristic size (radius for spheres), and the associated numerical codes become unstable and produce wrong answers. Yet another problem is due to the fact that particles in many turbid media (e. g. , dust clouds) cannot be characterized by a single shape. Often, refractive indices also vary. Because of problems with theoretical calculations, experimental (i. e. , laboratory) investigations are important for the characterization and understanding of the optical properties of such types of particles. The first paper in this volume, written by B. Gustafson, is aimed at the description of scaled analogue experiments in electromagnetic scattering.

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