



Absorption and Scattering of Light by Small Particles

Craig F. Bohren, Donald R. Huffman

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Treating absorption and scattering in equal measure, this self-contained, interdisciplinary study examines and illustrates how small particles absorb and scatter light. The authors emphasize that any discussion of the optical behavior of small particles is inseparable from a full understanding of the optical behavior of the parent material-bulk matter. To divorce one concept from the other is to render any study on scattering theory seriously incomplete.

Special features and important topics covered in this book include:

- * Classical theories of optical properties based on idealized models
- * Measurements for three representative materials: magnesium oxide, aluminum, and water
- * An extensive discussion of electromagnetic theory
- * Numerous exact and approximate solutions to various scattering problems
- * Examples and applications from physics, astrophysics, atmospheric physics, and biophysics
- * Some 500 references emphasizing work done since Kerker's 1969 work on scattering theory
- * Computer programs for calculating scattering by spheres, coated spheres, and infinite cylinders

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