



# 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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