

Handbook of Radiation and Scattering of Waves

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Lectures related to radiation and scattering presented by the author at the Delft University of Technology were the source of much of the material for this text. The book is divided into three major parts, the first covering acoustic waves in fluids, the second covering radiation and scattering of elastic waves in solids, and the third covering radiation and scattering of electromagnetic waves.

The first part, 291 pages of material on acoustic waves, is a mathematical treatment of such subjects as the basic fluid equations, the wave equation, radiation from sources, plane waves, reciprocity, and scattering by objects in fluids. The remaining two parts are a mathematical treatment of the other two subjects mentioned in the first paragraph.