



Scattering of Electromagnetic Waves, Numerical Simulations

Leung Tsang, Jin Au Kong, Kung-Hau Ding, Chi On Ao

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A timely and authoritative guide to the state of the art of wave scattering

Scattering of Electromagnetic Waves offers in three volumes a complete and up-to-date treatment of wave scattering by random discrete scatterers and rough surfaces. Written by leading scientists who have made important contributions to wave scattering over three decades, this new work explains the principles, methods, and applications of this rapidly expanding, interdisciplinary field. It covers both introductory and advanced material and provides students and researchers in remote sensing as well as imaging, optics, and electromagnetic theory with a one-stop reference to a wealth of current research results. Plus, Scattering of Electromagnetic Waves contains detailed discussions of both analytical and numerical methods, including cutting-edge techniques for the recovery of earth/land parametric information.

The three volumes are entitled respectively Theories and Applications, Numerical Simulation, and Advanced Topics. In the second volume, Numerical Simulations, Leung Tsang (University of Washington) Jin Au Kong (MIT), Kung-Hau Ding (Air Force Research Lab), and Chi On Ao (MIT) cover:

- * Layered media simulations
- * Rough surface and volume scattering simulations
- * Dense media models and simulations
- * Electromagnetic scattering by discrete scatterers and a buried object
- * Scattering by vertical cylinders above a surface
- * Electromagnetic waves scattering by vegetation
- * Computational methods and programs used for performing various simulations

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