Theory of Wave Scattering From Random Rough Surfaces,

J. A. Ogilvy

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This book provides an up-to-date review of the theories that have been developed for the study of acoustic, elastic and electromagnetic wave scattering from randomly rough surfaces. Theory of Wave Scattering from Random Rough Surfaces is the first comprehensive summary, in one volume, of all the intensive studies thta have been undertaken over the last few decades. Emphasis is placed on those theories which lead to soluble equations and which are of practical interest. Experimental data are used to illustrate the usefulness of the different theories, and areas where future progress might be possible are also outlined. After covering some of the problems associated with random rough surfaces the author describes the well-known perturbation and Kirchhoff approaches, showing their regimes of validity. Methods for multiple scattering are then considered, emphasising those techniques which are likely to lead to solutions for problems of practical interest. Further considerations include multiple scales of roughness, surface self-shadowing and field statistics. Numerical simulation techniques are also discussed, showing the power of this approach for solving otherwise intractable problems. These techniques have only recently been developed and have not previously been discussed in book form. Theory of Wave Scattering from Random Rough Surfaces will be invaluable to graduate scientists and engineers working on wave scattering from rough surfaces, whether this be for radar, sonar, ultrasonic or optical applications.

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