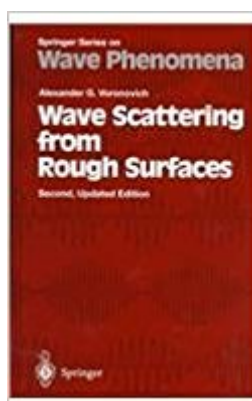


The book was found

Wave Scattering From Rough Surfaces (Springer Series On Wave Phenomena)



Synopsis

Since the first edition of this book was published in the 1994, the theory of wave scattering from rough surfaces has continued to develop intensively. The community of researchers working in this area keeps growing, which provides justification for issuing this second edition. In preparing the second edition, I was challenged by the problem of selecting new material from the many important results obtained recently. Eventually, a new section was added to the central Chap. 6 of this book. This section describes the operator expansion technique put forward by M. Milder, which conforms well with the general approach adopted in the book and which to my mind is one of the most promising. Remote sensing of the terrain and ocean surface represents one of the most important and interesting challenges to the theory of wave scattering from rough surfaces. Rapid progress in electronics results in sensors with new capabilities. New powerful computers and data communication systems allow more sophisticated data processing techniques. What information about soil or air-sea interaction processes can be obtained from gigaflops of data streaming from air-or space-borne radars? To use this information efficiently, one cannot rely entirely on heuristic approaches and needs adequate theory. I hope that this book will contribute to progress in this important area.

Book Information

Series: Springer Series on Wave Phenomena (Book 17)

Hardcover: 236 pages

Publisher: Springer; 2nd, updated ed. 1999 edition (December 4, 1998)

Language: English

ISBN-10: 3540646736

ISBN-13: 978-3540646730

Product Dimensions: 0.8 x 6.5 x 9.8 inches

Shipping Weight: 1.1 pounds

Average Customer Review: Be the first to review this item

Best Sellers Rank: #856,128 in Books (See Top 100 in Books) #174 in Books > Science & Math > Physics > Waves & Wave Mechanics #291 in Books > Science & Math > Physics > Solid-State Physics #320 in Books > Science & Math > Physics > Optics

Customer Reviews

Wave Scattering From Rough Surfaces deals with a theory that has many important practical applications. The monograph considers the subject by using the concept of scattering amplitude,

which allows one to simplify theoretical constructions and, more importantly, to consider different approaches within a single theoretical scheme. It emphasizes new theoretical approaches developed in this area during the last two decades. For the second edition, a special section was added to present one of the most powerful among recently developed methods, namely the operator expansion method.

[Download to continue reading...](#)

Wave Scattering from Rough Surfaces (Springer Series on Wave Phenomena) Electromagnetic Wave Propagation, Radiation, and Scattering: From Fundamentals to Applications (IEEE Press Series on Electromagnetic Wave Theory) Polymers and Neutron Scattering (Oxford Series on Neutron Scattering in Condensed Matter) Natural Surfaces: Visual Research for Artists, Architects, and Designers (Surfaces Series) Laser Interaction and Related Plasma Phenomena (Laser Interaction & Related Plasma Phenomena) Debris-flow Hazards and Related Phenomena (Springer Praxis Books) High-Energy-Density Physics: Fundamentals, Inertial Fusion, and Experimental Astrophysics (Shock Wave and High Pressure Phenomena) Explosive Effects and Applications (Shock Wave and High Pressure Phenomena) The 5th Wave: The First Book of the 5th Wave Series Ghost Wave: The Discovery of Cortes Bank and the Biggest Wave on Earth Ghost Wave: The True Story of the Biggest Wave on Earth and the Men Who Challenged It Mastering Elliott Wave: Presenting the Neely Method: The First Scientific, Objective Approach to Market Forecasting with the Elliott Wave Theory (version 2) The Scattering of All: Tales From Extraordinary Survivors of Suicide Loss (The Survivor Series Book 1) Principles and Applications of Ion Scattering Spectrometry: Surface Chemical and Structural Analysis (Wiley Series on Mass Spectrometry) Optical Scattering: Measurement and Analysis, Third Ed. (Press Monograph) Inverse Acoustic and Electromagnetic Scattering Theory (Applied Mathematical Sciences) Grassmannian Geometry of Scattering Amplitudes Elementary Scattering Theory: For X-ray and Neutron Users Elements of Slow-Neutron Scattering: Basics, Techniques, and Applications Neutron Scattering in Layered Copper-Oxide Superconductors (Physics and Chemistry of Materials with Low-Dimensional Structures)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)