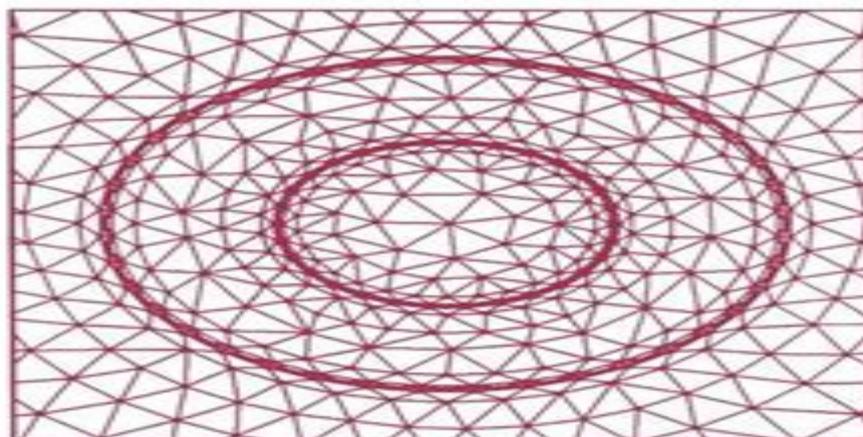


DIRECTIONS IN ELECTROMAGNETIC WAVE MODELING



*Edited by
Henry L. Bertoni
and
Leopold B. Felsen*

Directions In Electromagnetic Wave Modeling

Kathleen Armour



Directions In Electromagnetic Wave Modeling:

Directions in Electromagnetic Wave Modeling H. Bertoni, L.B. Felsen, 2013-12-30 [Electromagnetic Wave Scattering from Random Rough Surfaces](#) Nicolas Pinel, Christophe Boulier, 2013-12-02 Electromagnetic wave scattering from random rough surfaces is an active interdisciplinary area of research with myriad practical applications in fields such as optics acoustics geoscience and remote sensing Focusing on the case of random rough surfaces this book presents classical asymptotic models used to describe electromagnetic wave scattering The authors begin by outlining the basic concepts relevant to the topic before moving on to look at the derivation of the scattered field under asymptotic models based on the Kirchhoff tangent plane in order to calculate both the scattered field and the statistical average intensity More elaborated asymptotic models are also described for dealing with specific cases and numerical results are presented to illustrate these models Comparisons with a reference numerical method are made to confirm and refine the theoretical validity domains The final chapter derives the expressions of the scattering intensities of random rough surfaces under the asymptotic models Its expressions are given for their incoherent contributions from statistical calculations These results are then compared with numerical computations using a Monte Carlo process as well as with experimental models for sea surface backscattering

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Drawing on many disciplines that include physics engineering economics and biology the text contains numerous case studies examples tables and problems A solutions manual is available for qualifying instructors

Analysis and Design of Planar Microwave Components K. C. Gupta, Mohamed Deeb Abouzahra, 1994 Science Abstracts, 1924 *Finite Elements for Wave Electromagnetics* IEEE Antennas and Propagation Society, 1994 **JJAP Letters**, 2007 **The Cumulative Book Index**, 1992 A world list of books in the English language Introduction to Geophysical Prospecting Milton Burnett Dobrin, Carl H. Savit, 1988 *Japanese Journal of Applied Physics*, 2004 **Index of Conference Proceedings**, 1992 **U.S. Government Research & Development Reports**, 1970 Meteorological and Geostrophysical Abstracts, 1982 **MELECON**, 1981 Melecon 1981 is a tribute paid by the Institute of Electrical and Electronics Engineers on the 150th anniversary of electrical engineering pref 1981 Ophthalmology Myron Yanoff, Jay S. Duker, 2009-01-01 Based on feedback the authors have streamlined their bestselling reference to zero in on just the clinical answers ophthalmologists need in day to day practice This new edition presents unparalleled guidance on nearly every ophthalmic condition and procedure *Scientific and Technical Aerospace Reports*, 1985 Bibliography of Scientific and Industrial Reports, 1965-07

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