

VOLUME 1

Wave Propagation and Scattering in Random Media

SINGLE SCATTERING AND TRANSPORT THEORY



Akira Ishimaru

Wave Propagation And Scattering In Random Media

D Kirk

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Wave Propagation And Scattering In Random Media:

Wave Propagation and Scattering in Random Media Akira Ishimaru, 1999-02-04 Electrical Engineering Wave Propagation and Scattering in Random Media A volume in the IEEE OUP Series on Electromagnetic Wave Theory Donald G Dudley Series Editor This IEEE Classic Reissue presents a unified introduction to the fundamental theories and applications of wave propagation and scattering in random media Now for the first time the two volumes of Wave Propagation and Scattering in Random Media previously published by Academic Press in 1978 are combined into one comprehensive volume This book presents a clear picture of how waves interact with the atmosphere terrain ocean turbulence aerosols rain snow biological tissues composite material and other media The theories presented will enable you to solve a variety of problems relating to clutter interference imaging object detection and communication theory for various media This book is expressly designed for engineers and scientists who have an interest in optical microwave or acoustic wave propagation and scattering Topics covered include Wave characteristics in aerosols and hydrometeors Optical and acoustic scattering in sea water Scattering from biological materials Pulse scattering and beam wave propagation in such media Optical diffusion in tissues and blood Transport and radiative transfer theory Kubelka Munk flux theory and plane parallel problem Multiple scattering theory Wave fluctuations in turbulence Strong fluctuation theory Rough surface scattering Remote sensing and inversion techniques Imaging through various media About the IEEE OUP Series on Electromagnetic Wave Theory Formerly the IEEE Press Series on Electromagnetic Waves this joint series between IEEE Press and Oxford University Press offers outstanding coverage of the field with new titles as well as reprintings and revisions of recognized classics that maintain long term archival significance in electromagnetic waves and applications Designed specifically for graduate students practicing engineers and researchers this series provides affordable volumes that explore electromagnetic waves and applications beyond the undergraduate level See page ii of the front matter for a listing of books in this series

Wave Propagation and Scattering in Random Media: Multiple scattering, turbulence, rough surfaces, and remote sensing Akira Ishimaru, 1978 Wave Propagation and Scattering in Random Media Volume 2 presents the fundamental formulations of wave propagation and scattering in random media in a unified and systematic manner The topics covered in this book may be grouped into three categories waves in random scatterers waves in random continua and rough surface scattering Random scatterers are random distributions of many particles Examples are rain fog smog hail ocean particles red blood cells polymers and other particles in a state of Brownian motion Random continua are the media whose characteristics vary randomly an

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Media, Vol. 2, 1978 **Wave propagation and scattering in random media**, 1978 *Wave Propagation and Scattering in Random Media, Vol.2. Multiple Scattering, Turbulence, Rough Surfaces, and Remote Sensing* A. Ishimaru, 1978

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