

Scattering of Electromagnetic Waves

Theories and Applications

Leung Tsang
Jin Au Kong
Kung-Hau Ding

Wiley Series in Remote Sensing, Jin Au Kong, Series Editor

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Scattering Of Electromagnetic Waves Theories And Applications

Sandra Costanzo



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Electromagnetic Waves Vitaliy Zhurbenko, 2011-06-21 This book is dedicated to various aspects of electromagnetic wave theory and its applications in science and technology The covered topics include the fundamental physics of electromagnetic waves theory of electromagnetic wave propagation and scattering methods of computational analysis material characterization electromagnetic properties of plasma analysis and applications of periodic structures and waveguide components and finally the biological effects and medical applications of electromagnetic fields

Introduction to Electromagnetic Waves with Maxwell's Equations Ozgur Ergul, 2021-09-14 Discover an innovative and fresh approach to teaching classical electromagnetics at a foundational level Introduction to

Electromagnetic Waves with Maxwell's Equations delivers an accessible and practical approach to teaching the well known topics all electromagnetics instructors must include in their syllabus. Based on the author's decades of experience teaching the subject, the book is carefully tuned to be relevant to an audience of engineering students who have already been exposed to the basic curricula of linear algebra and multivariate calculus. Forming the backbone of the book, Maxwell's equations are developed step by step in consecutive chapters while related electromagnetic phenomena are discussed simultaneously. The author presents accompanying mathematical tools alongside the material provided in the book to assist students with retention and comprehension. The book contains over 100 solved problems and examples with stepwise solutions offered alongside them. An accompanying website provides readers with additional problems and solutions. Readers will also benefit from the inclusion of a thorough introduction to preliminary concepts in the field including scalar and vector fields, cartesian coordinate systems, basic vector operations, orthogonal coordinate systems, and electrostatics, magnetostatics, and electromagnetics. An exploration of Gauss' Law including integral forms, differential forms, and boundary conditions. A discussion of Ampere's Law including integral and differential forms, and Stoke's Theorem. An examination of Faraday's Law including integral and differential forms, and the Lorentz Force Law. Perfect for third and fourth year undergraduate students in electrical engineering, mechanical engineering, applied maths, physics, and computer science. Introduction to Electromagnetic Waves with Maxwell's Equations will also earn a place in the libraries of graduate and postgraduate students in any STEM program with applications in electromagnetics.

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Mathematical Analysis of Deterministic and Stochastic Problems in Complex Media Electromagnetics G. F. Roach, I. G. Stratis, A. N. Yannacopoulos, 2012-03-04

Electromagnetic complex media are artificial materials that affect the propagation of electromagnetic waves in surprising ways not usually seen in nature. Because of their wide range of important applications, these materials have been intensely studied over the past twenty-five years, mainly from the perspectives of physics and engineering. But a body of rigorous mathematical theory has also gradually developed, and this is the first book to present that theory. Designed for researchers and advanced graduate students in applied mathematics, electrical engineering, and physics, this book introduces the electromagnetics of complex media through a systematic state-of-the-art account of their mathematical theory. The book combines the study of well-posedness, homogenization, and controllability of Maxwell equations complemented with constitutive relations describing complex media. The book treats deterministic and stochastic problems both in the frequency and time domains. It also covers computational aspects and scattering problems among other important topics. Detailed appendices make the book self-contained in terms of mathematical prerequisites and accessible to engineers and physicists as well as mathematicians.

Fundamentals of Photonics Bahaa E. A. Saleh, Malvin Carl Teich, 2020-03-04 *Fundamentals of Photonics* A complete, thoroughly updated, full-color third edition. *Fundamentals of Photonics* Third Edition is a self-contained and up-to-date introductory-level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics. Featuring a blend of theory and applications, coverage includes detailed accounts of the primary theories of light, including ray optics, wave optics, electromagnetic optics, and photon optics, as well as the interaction of light and matter. Presented at increasing levels of complexity, preliminary sections build toward more advanced topics such as Fourier optics and holography, photonic crystal optics, guided-wave and fiber optics, LEDs and lasers, acousto-optic and electro-optic devices, nonlinear optical devices, ultrafast optics, optical interconnects and switches, and optical fiber communications. The third edition features an entirely new chapter on the optics of metals and plasmonic devices. Each chapter contains highlighted equations, exercises, problems, summaries, and selected reading lists. Examples of real systems are included to emphasize the concepts governing applications of current interest. Each of the twenty-four chapters of the second edition has been thoroughly updated.

Wave Propagation Concepts for Near-Future Telecommunication Systems Sandra Costanzo, 2017-05-03 *Wave Propagation Concepts for Near-Future Telecommunication Systems* is an edited book discussing recent researches for the development of innovative telecommunication systems with particular focus on the propagation aspects and radiating systems design. It is divided into two sections: Section 1 devoted to the illustration of advanced results in terms of microwave propagation at high operating frequencies, and Section 2 illustrating new electromagnetic concepts and applications.

Signal Theory Methods in Multispectral Remote Sensing David A. Landgrebe, 2003-01-31 An outgrowth of the author's extensive experience teaching senior and graduate-level students, this is both a thorough introduction and a solid professional reference. Material covered has been developed based on a 35-year research program associated with such systems as the Landsat satellite program and later satellite and aircraft programs. Covers existing

aircraft and satellite programs and several future programs An Instructor s Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department

Essentials of Computational Electromagnetics Xin-Qing Sheng, Wei Song, 2012-03-22 Essentials of Computational Electromagnetics provides an in depth introduction of the three main full wave numerical methods in computational electromagnetics CEM namely the method of moment MoM the finite element method FEM and the finite difference time domain FDTD method Numerous monographs can be found addressing one of the above three methods However few give a broad general overview of essentials embodied in these methods or were published too early to include recent advances Furthermore many existing monographs only present the final numerical results without specifying practical issues such as how to convert discretized formulations into computer programs and the numerical characteristics of the computer programs In this book the authors elaborate the above three methods in CEM using practical case studies explaining their own research experiences along with a review of current literature A full analysis is provided for typical cases including characteristics of numerical methods helping beginners to develop a quick and deep understanding of the essentials of CEM Outlines practical issues such as how to convert discretized formulations into computer programs Gives typical computer programs and their numerical characteristics along with line by line explanations of programs Uses practical examples from the authors own work as well as in the current literature Includes exercise problems to give readers a better understanding of the material Introduces the available commercial software and their limitations This book is intended for graduate level students in antennas and propagation microwaves microelectronics and electromagnetics This text can also be used by researchers in electrical and electronic engineering and software developers interested in writing their own code or understanding the detailed workings of code Companion website for the book www.wiley.com/go/sheng_cem

Introduction to the Physics and Techniques of Remote Sensing Charles Elachi, Jakob J. van Zyl, 2006-05-11 The science and engineering of remote sensing theory and applications The Second Edition of this authoritative book offers readers the essential science and engineering foundation needed to understand remote sensing and apply it in real world situations Thoroughly updated to reflect the tremendous technological leaps made since the publication of the first edition this book covers the gamut of knowledge and skills needed to work in this dynamic field including Physics involved in wave matter interaction the building blocks for interpreting data Techniques used to collect data Remote sensing applications The authors have carefully structured and organized the book to introduce readers to the basics and then move on to more advanced applications Following an introduction Chapter 2 sets forth the basic properties of electromagnetic waves and their interactions with matter Chapters 3 through 7 cover the use of remote sensing in solid surface studies including oceans Each chapter covers one major part of the electromagnetic spectrum e g visible near infrared thermal infrared passive microwave and active microwave Chapters 8 through 12 then cover remote sensing in the study of atmospheres and ionospheres Each chapter first presents the basic interaction mechanism followed by techniques to

acquire measure and study the information or waves emanating from the medium under investigation In most cases a specific advanced sensor is used for illustration The book is generously illustrated with fifty percent new figures Numerous illustrations are reproduced in a separate section of color plates Examples of data acquired from spaceborne sensors are included throughout Finally a set of exercises along with a solutions manual is provided This book is based on an upper level undergraduate and first year graduate course taught by the authors at the California Institute of Technology Because of the multidisciplinary nature of the field and its applications it is appropriate for students in electrical engineering applied physics geology planetary science astronomy and aeronautics It is also recommended for any engineer or scientist interested in working in this exciting field

Photopolarimetry in Remote Sensing Gorden Videen,Yaroslav Yatskiv,Michael Mishchenko,2006-03-02 Photopolarimetric remote sensing is vital in fields as diverse as medical diagnostics astrophysics atmospheric science environmental monitoring and military intelligence The areas considered here include radiative transfer dynamic systems backscatter polarization biological systems astrophysical phenomena comets and instrumentation Subtopics include observational information including determining morphology and chemistry light scattering models and characterization methodologies While this introductory text highlights the latest advances in this multi disciplinary topic it is also a reference guide for the advanced researcher

Optics of the Moon Yuriy Shkuratov,Gorden Videen,Vadym Kaydash,2025-01-16 Optics of the Moon offers a modern approach to lunar remote sensing It presents methods for interpreting optics of surfaces with complicated structures in particular the lunar regolith For example this book illustrates how phase ratio techniques can lead to the detection of surface structure anomalies and describes polarimetric studies of the lunar surface and their use This book addresses many questions related to the surfaces of the Moon such as why the Moon looks like a ball at a large phase angle and like a disk in full moon why the lunar surface has slight color variations and why at large phase angles its polarization degree closely correlates with albedo Including historical perspectives case studies maps and figures to enhance the understanding of both theory and techniques Optics of the Moon is a valuable resource for researchers and students in lunar and planetary science and remote sensing Includes case studies maps and color figures to illustrate concepts clearly with a specific application to the Moon Presents theories alongside experimental and observational data to support and describe modern techniques Communicates new approaches and methods related to the optics of lunar surfaces

Light, Plasmonics and Particles M. Pinar Menguc,Mathieu Francoeur,2023-05-08 Light Plasmonics and Particles focuses on the fundamental science and engineering applications of light scattering by particles aerosols and hydrosols and of localized plasmonics The book is intended to be a self contained and coherent resource volume for graduate students and professionals in the disciplines of materials science engineering and related disciplines of physics and chemistry In addition to chapters related to fundamental concepts it includes detailed discussion of different numerical models experimental systems and applications In order to develop new devices processes and applications we need to advance our

understanding of light matter interactions For this purpose we need to have a firm grasp of electromagnetic wave phenomena and absorption and scattering of waves by different size and shape geometrical objects In addition understanding of tunneling of waves based on electron and lattice vibrations and coupling with the thermal fluctuations to enhance near field energy transfer mechanisms are required for the development of future energy harvesting devices and sensors Reviews the fundamental science available computational tools experimental systems and a wide range of applications of plasmonics Connects the cross cutting science of the physics of electromagnetic light scattering by particles plasmonics and phononic interactions at the electronic molecular and lattice levels of materials Reviews applications of light matter interactions of particles aerosols hydrosols and localized plasmonics **Multiple Scattering of Light by Particles** Michael I.

Mishchenko, Larry D. Travis, Andrew A. Lacis, 2006-04-27 This monograph on multiple scattering of light by small particles is an ideal resource for science professionals engineers and graduate students Quantitative Remote Sensing of Land

Surfaces Shunlin Liang, 2005-02-25 Processing the vast amounts of data on the Earth's land surface environment generated by NASA's and other international satellite programs is a significant challenge Filling a gap between the theoretical physically based modelling and specific applications this in depth study presents practical quantitative algorithms for estimating various land surface variables from remotely sensed observations A concise review of the basic principles of optical remote sensing as well as practical algorithms for estimating land surface variables quantitatively from remotely sensed observations Emphasizes both the basic principles of optical remote sensing and practical algorithms for estimating land surface variables quantitatively from remotely sensed observations Presents the current physical understanding of remote sensing as a system with a focus on radiative transfer modelling of the atmosphere canopy soil and snow Gathers the state of the art quantitative algorithms for sensor calibration atmospheric and topographic correction estimation of a variety of biophysical and geophysical variables and four dimensional data assimilation **Handbook of Molecular Plasmonics**

Fabio Della Sala, Stefania D'Agostino, 2013-08-13 While several reviews and books on surface nanophotonics and fluorescence spectroscopy are available an updated focus on molecular plasmonics including both theoretical methods and experimental aspects is still lacking This handbook is a comprehensive overview on the physics of the plasmon emitter interaction ranging from electromagnetism to quantum mechanics from metal enhanced fluorescence to surface enhanced Raman scattering from optical microscopy to synthesis of metal nanoparticles filling the gap in the literature of this merging field It allows experimentalists to have a solid theoretical reference at a different level of accuracy and theoreticians to find new stimuli for novel computational methods and emerging applications Lattices of Dielectric Resonators Alexander Trubin, 2015-10-30 This book provides the analytical theory of complex systems composed of a large number of high Q dielectric resonators Spherical and cylindrical dielectric resonators with inferior and also whispering gallery oscillations allocated in various lattices are considered A new approach to S matrix parameter calculations based on perturbation theory of Maxwell

equations developed for a number of high Q dielectric bodies is introduced All physical relationships are obtained in analytical form and are suitable for further computations Essential attention is given to a new unified formalism of the description of scattering processes The general scattering task for coupled eigen oscillations of the whole system of dielectric resonators is described The equations for the expansion coefficients are explained in an applicable way The temporal Green functions for the dielectric resonator are presented The scattering process of short pulses in dielectric filter structures dielectric antennas and lattices of dielectric resonators is discussed

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