

Acoustic & Electromagnetic Scattering Analysis

Using Discrete Sources

Adrian Dolcu, Yuri Eremin and Thomas Whited



Acoustic And Electromagnetic Scattering Analysis Using Discrete Sources

Michael I. Mishchenko



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Acoustic and Electromagnetic Scattering Analysis Using Discrete Sources Adrian Doicu, Yuri A. Eremin, Thomas Wriedt, 2000-07-06 The discrete sources method is an efficient and powerful tool for solving a large class of boundary value problems in scattering theory A variety of numerical methods for discrete sources now exist In this book the authors unify these formulations in the context of the so called discrete sources method Comprehensive presentation of the discrete sources method Original theory an extension of the conventional null field method using discrete sources Practical examples that demonstrate the efficiency and flexibility of elaborated methods scattering by particles with high aspect ratio rough particles nonaxisymmetric particles multiple scattering List of discrete sources programmes available via the Internet

Electromagnetic Scattering by Particles and Particle Groups Michael I. Mishchenko, 2014-04-24 A self contained accessible introduction to the basic concepts formalism and recent advances in electromagnetic scattering for researchers and graduate students *Light Scattering by Systems of Particles* Adrian Doicu, Thomas Wriedt, Yuri A. Eremin, 2006-10-19 This book develops the theory of the null field method also called T matrix method covering almost all aspects and current applications This book also incorporates FORTRAN programs and simulation results Worked examples of the application of the FORTRAN programs show readers how to adapt or modify the programs for their specific application

Electromagnetic Wave Scattering on Nonspherical Particles Tom Rother, Michael Kahnert, 2013-09-19 This book gives a detailed overview of the theory of electromagnetic wave scattering on single homogeneous but nonspherical particles Beside the systematically developed Green s function formalism of the first edition this second and enlarged edition contains additional material regarding group theoretical considerations for nonspherical particles with boundary symmetries an iterative T matrix scheme for approximate solutions and two additional but basic applications Moreover to demonstrate the advantages of the group theoretical approach and the iterative solution technique the restriction to axisymmetric scatterers of the first edition was abandoned **Exploring the Atmosphere by Remote Sensing Techniques** Rodolfo

Guzzi, 2008-01-11 Only satellite based remote sensing instruments generate the wealth of global data on the concentrations of atmospheric constituents that are necessary for long term monitoring of the atmosphere This set of courses and lectures sponsored by ICTP in Trieste focuses on remote sensing for atmospheric applications and inverse methods to assess atmospheric components gases aerosols and clouds It addresses primarily graduate students and young researchers in the atmospheric sciences but will be useful for all those wishing to study various techniques for exploring the atmosphere by remote sensing Contributions span topics such as on IGOS Integrated Global Observing Strategy electromagnetic scattering by non spherical particles forward modelling requirements and the information content problem Earth radiation and aerosol monitoring by LIDAR **Laser Metrology in Fluid Mechanics** Alain Boutier, 2013-02-20 In fluid mechanics non intrusive measurements are fundamental in order to improve knowledge of the behavior and main physical phenomena of flows in

order to further validate codes The principles and characteristics of the different techniques available in laser metrology are described in detail in this book Velocity temperature and concentration measurements by spectroscopic techniques based on light scattered by molecules are achieved by different techniques laser induced fluorescence coherent anti Stokes Raman scattering using lasers and parametric sources and absorption spectroscopy by tunable laser diodes which are generally better suited for high velocity flows The size determination of particles by optical means a technique mainly applied in two phase flows is the subject of another chapter along with a description of the principles of light scattering For each technique the basic principles are given as well as optical devices and data processing A final chapter reminds the reader of the main safety precautions to be taken when using powerful lasers

Light Scattering Reviews 4 Alexander A.

Kokhanovsky, 2009-07-25 This fourth volume of Light Scattering Reviews is composed of three parts The first part is concerned with theoretical and experimental studies of single light scattering by small nonspherical particles Light scattering by small particles such as for instance droplets in the terrestrial clouds is a well understood area of physical optics On the other hand exact theoretical calculations of light scattering patterns for most of nonspherical and irregularly shaped particles can be performed only for the restricted values of the size parameter which is proportional to the ratio of the characteristic size of the particle to the wavelength For the large nonspherical particles approximations are used e.g. ray optics The exact theoretical techniques such as the T matrix method cannot be used for extremely large particles such as those in ice clouds because then the size parameter in the vector T matrix method is the characteristic size radius for spheres and the associated numerical codes become unstable and produce wrong answers Yet another problem is due to the fact that particles in many turbid media e.g. dust clouds cannot be characterized by a single shape Often refractive indices also vary Because of problems with theoretical calculations experimental laboratory investigations are important for the characterization and understanding of the optical properties of such types of particles The first paper in this volume written by B. Gustafson is aimed at the description of scaled analogue experiments in electromagnetic scattering

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

Optics of Cosmic Dust Gordon Videen, Miroslav Kocifaj, 2012-12-06 Optics of Cosmic Dust describes what we currently know about cosmic dust how we know it and the research efforts undertaken to provide that knowledge Areas treated include observational information dust morphology and chemistry light scattering models characterisation methodologies and backscatter polarisation and dynamics Suitable as an introductory text the book is also a reference guide for the advanced researcher

Scattering, Absorption, and Emission of Light by Small Particles Michael I. Mishchenko, Larry D. Travis, Andrew A. Lacis, 2002-06-06 A thorough and up to date treatment of electromagnetic scattering by small particles

Marine Acoustics James L. Buchanan, Robert P. Gilbert, Armand Wirgin, Yongzhi Xu, 2004-01-01 Marine Acoustics Direct

and Inverse Problems presents current research trends in the field of underwater acoustic wave direct and inverse problems. It is the first to investigate inverse problems in an ocean environment with heavy emphasis on the description and resolution of the forward scattering problem. *Plasmonics and Plasmonic Metamaterials* G. Shvets, Igor Tsukerman, 2012

Manipulation of plasmonics from nano to micro scale 1 Introduction 2 Form Birefringent metal and its plasmonic anisotropy 3 Plasmonic photonic crystal 4 Fourier plasmonics 5 Nanoscale optical field localization 6 Conclusions and outlook 11

Dielectric loaded plasmonic waveguide components 1 Introduction 2 Design of waveguide dimensions 3 Sample preparation and near field characterization 4 Excitation and propagation of guided modes 5 Waveguide bends and splitters 6 Coupling between waveguides 7 Waveguide ring resonators 8 Bragg gratings 9 Discussion 12 Manipulating nanoparticles and enhancing spectroscopy with surface plasmons 1 Introduction 2 Propulsion of gold nanoparticles with surface plasmon polaritons 3 Double resonance substrates for surface enhanced Raman spectroscopy 4 Conclusions and outlook 13 Analysis of light scattering by nanoobjects on a plane surface via discrete sources method 1 Introduction 2 Light scattering by a nanorod 3 Light scattering by a nanoshell 4 Summary 14 Computational techniques for plasmonic antennas and waveguides 1 Introduction 2 Time domain solvers 3 Frequency domain solvers 4 Plasmonic antennas 5 Plasmonic waveguides 6 Advanced structures 7 Conclusions

Encyclopedia of Optical Engineering: Pho-Z, pages 2049-3050 Ronald G. Driggers, 2003

Compiled by 330 of the most widely respected names in the electro optical sciences the Encyclopedia is destined to serve as the premiere guide in the field with nearly 2000 figures 560 photographs 260 tables and 3800 equations From astronomy to x ray optics this reference contains more than 230 vivid entries examining the most intriguing technological advances and perspectives from distinguished professionals around the globe The contributors have selected topics of utmost importance in areas including digital image enhancement biological modeling biomedical spectroscopy and ocean optics providing thorough coverage of recent applications in this continually expanding field

Light Scattering Reviews Alexander A. Kokhanovsky, 2006-09-03 This book provides an account of recent developments in light scattering media optics Leading researchers focus on both the theoretical and experimental results in the area In particular light scattering by ice crystals soil particles and biological particles is considered This volume first discusses single light scattering followed by multiple light scattering and finally examines possible applications in combustion and marine research

Generalized Multipole Techniques for Electromagnetic and Light Scattering T. Wriedt, 1999-12-01 This book is an edited volume of nine papers covering the different variants of the generalized multipole techniques GMT The papers were presented at the recent 3rd Workshop on Electromagnetics and Light Scattering Theory and Applications which focused on current GMT methods These include the multiple multipole method MMP the discrete sources method DSM Yasuura's method method of auxiliary sources and null field method with discrete sources Each paper presents a full theoretical description as well as some applications of the method in electrical engineering and optics It also includes both 2D and 3D methods and other

applications developed in the former Soviet Union and Japan

Mathematical Modeling in Diffraction Theory Alexander G. Kyurkchan, Nadezhda I. Smirnova, 2015-09-19 Mathematical Modeling in Diffraction Theory Based on A Priori Information on the Analytical Properties of the Solution provides the fundamental physical concepts behind the theory of wave diffraction and scattered wave fields as well as its application in radio physics acoustics optics radio astronomy biophysics geophysics and astrophysics This book provides a coherent discussion of several advanced topics that have the potential to push forward progress in this field It begins with examples illustrating the importance of taking a priori information into account when developing algorithms for solving diffraction problems with subsequent chapters discussing the basic analytical representations of wave fields the auxiliary current and source methods for solving the problems of diffraction at compact scatterers the null field and matrix methods that are widely used to solve problems in radio physics radio astronomy and biophysics and the continued boundary condition and pattern equation method Provides ideas and techniques for obtaining a priori information on analytical properties of wave fields and provides methods for solving diffraction problems Includes numerous concrete examples of localization of singularities of analytical continuation of wave fields Presents a qualitative explanation of the formation of visions of objects Formulates the concept of invisible objects Supplies appropriate computer programs for all presented methods

The Generalized Multipole Technique for Light Scattering Thomas Wriedt, Yuri Eremin, 2018-03-09 This book presents the Generalized Multipole Technique as a fast and powerful theoretical and computation tool to simulate light scattering by nonspherical particles It also demonstrates the considerable potential of the method In recent years the concept has been applied in new fields such as simulation of electron energy loss spectroscopy and has been used to extend other methods like the null field method making it more widely applicable The authors discuss particular implementations of the GMT methods such as the Discrete Sources Method DSM Multiple Multipole Program MMP the Method of Auxiliary Sources MAS the Filamentary Current Method FCM the Method of Fictitious Sources MFS and the Null Field Method with Discrete Sources NFM DS The Generalized Multipole Technique is a surface based method to find the solution of a boundary value problem for a given differential equation by expanding the fields in terms of fundamental or other singular solutions of this equation The amplitudes of these fundamental solutions are determined from the boundary condition at the particle surface Electromagnetic and light scattering by particles or systems of particles has been the subject of intense research in various scientific and engineering fields including astronomy optics meteorology remote sensing optical particle sizing and electromagnetics which has led to the development of a large number of modelling methods based on the Generalized Multipole Technique for quantitative evaluation of electromagnetic scattering by particles of various shapes and compositions The book describes these methods in detail

Selected Asymptotic Methods with Applications to Electromagnetics and Antennas George Fikioris, Ioannis Tastsoglou, Odysseas N. Bakas, 2022-06-01 This book describes and illustrates the application of several asymptotic methods that have proved useful in the authors research in

electromagnetics and antennas We first define asymptotic approximations and expansions and explain these concepts in detail We then develop certain prerequisites from complex analysis such as power series multivalued functions including the concepts of branch points and branch cuts and the all important gamma function Of particular importance is the idea of analytic continuation of functions of a single complex variable our discussions here include some recent direct applications to antennas and computational electromagnetics Then specific methods are discussed These include integration by parts and the Riemann Lebesgue lemma the use of contour integration in conjunction with other methods techniques related to Laplace's method and Watson's lemma the asymptotic behavior of certain Fourier sine and cosine transforms and the Poisson summation formula including its version for finite sums Often underutilized in the literature are asymptotic techniques based on the Mellin transform our treatment of this subject complements the techniques presented in our recent Synthesis Lecture on the exact not asymptotic evaluation of integrals Optical Metrology Roadmap for the Semiconductor, Optical, and Data Storage Industries ,2001 *Light Scattering Reviews, Vol. 6* Alexander A. Kokhanovsky,2011-09-22 This is the next volume in series of Light Scattering Reviews Volumes 1-5 have already been printed by Springer The volume is composed of several papers usually 10 of leading researchers in the respective field The main focus of this book is light scattering radiative transfer and optics of snow

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