V. S. Antyufeev

MONTE CARLO METHOD FOR SOLVING INVERSE PROBLEMS OF RADIATION TRANSFER

Monte Carlo Method For Solving Inverse Problems Of Radiation Transfer

George W. Kattawar

Monte Carlo Method For Solving Inverse Problems Of Radiation Transfer:

   Monte Carlo Method for Solving Inverse Problems of Radiation Transfer V. S. Antyufeev,2014-07-24 No detailed description available for Monte Carlo Method for Solving Inverse Problems of Radiation Transfer   *Operator Theory and Ill-Posed Problems* Mikhail M. Lavrent'ev,Lev Ja. Savel'ev,2011-12-22 This book consists of three major parts The first two parts deal with general mathematical concepts and certain areas of operator theory The third part is devoted to ill posed problems It can be read independently of the first two parts and presents a good example of applying the methods of calculus and functional analysis The first part Basic Concepts briefly introduces the language of set theory and concepts of abstract linear and multilinear algebra Also introduced are the language of topology and fundamental concepts of calculus the limit the differential and the integral A special section is devoted to analysis on manifolds The second part Operators describes the most important function spaces and operator classes for both linear and nonlinear operators Different kinds of generalized functions and their transformations are considered Elements of the theory of linear operators are presented Spectral theory is given a special focus The third part Ill Posed Problems is devoted to problems of mathematical physics integral and operator equations evolution equations and problems of integral geometry It also deals with problems of analytic continuation Detailed coverage of the subjects and numerous examples and exercises make it possible to use the book as a textbook on some areas of calculus and functional analysis It can also be used as a reference textbook because of the extensive scope and detailed references with comments   Well-posed, Ill-posed, and Intermediate Problems with Applications Petrov Yuri P.,Valery S. Sizikov,2011-12-22 This book deals with one of the key problems in applied mathematics namely the investigation into and providing for solution stability in solving equations with due allowance for inaccuracies in set initial data parameters and coefficients of a mathematical model for an object under study instrumental function initial conditions etc and also with allowance for miscalculations including roundoff errors Until recently all problems in mathematics physics and engineering were divided into two classes well posed problems and ill posed problems The authors introduce a third class of problems intermediate ones which are problems that change their property of being well or ill posed on equivalent transformations of governing equations and also problems that display the property of being either well or ill posed depending on the type of the functional space used The book is divided into two parts Part one deals with general properties of all three classes of mathematical physical and engineering problems with approaches to solve them Part two deals with several stable models for solving inverse ill posed problems illustrated with numerical examples

   Characterisation of Bio-Particles from Light Scattering Valeri P. Maltsev,Konstantin A. Semyanov,2013-03-01 The primary aim of this monograph is to provide a systematic state of the art summary of the light scattering of bioparticles including a brief consideration of analytical and numerical methods for computing electromagnetic scattering by single particles a detailed discussion of the instrumental approach used in measurement of light scattering an analysis of the

methods used in solution of the inverse light scattering problem and an introduction of the results dealing with practical analysis of biosamples Considering the widespread need for this information in optics remote sensing engineering medicine and biology the book is useful to many graduate students scientists and engineers working on various aspects of electromagnetic scattering and its applications *Applied Mechanics Reviews* ,1989 *Laser Interaction with Heterogeneous Biological Tissue* Kirill Kulikov,Tatiana Koshlan,2018-06-27 This book introduces readers to the principles of laser interaction with biological cells and tissues with varying degrees of organization In addition to considering the problems of biomedical cell diagnostics and modeling the scattering of laser irradiation of blood cells for biological structures dermis epidermis vascular plexus it presents an analytic theory based on solving the wave equation for the electromagnetic field It discusses a range of mathematical modeling topics including optical characterization of biological tissue with large scale and small scale inhomogeneities in the layers heating blood vessels using laser irradiation on the outer surface of the skin and thermo chemical denaturation of biological structures based on the example of human skin In this second edition a new electrodynamic model of the interaction of laser radiation with blood cells is presented for the structure of cells and the in vitro prediction of optical properties Theapproach developed makes it possible to determine changes in cell size as well as modifications in their internal structures such as transformation and polymorphism nucleus scattering which is of interest for cytological studies The new model is subsequently used to calculate the size distribution function of irregular shape particles with a variety of forms and structures which allows a cytological analysis of the observed deviations from normal cells

Journal of Thermophysics and Heat Transfer ,1997 Scientific and Technical Aerospace Reports ,1975

Izvestiya ,2004 **Inverse Thermal Problems** Kazimierz Kurpisz,A. J. Nowak,1995 The book will also be of interest to those involved in energy systems aerospace chemical engineering and mechanical engineering generally Meteorological and Geoastrophysical Abstracts ,1985 Atmospheric and Oceanic Optics ,2007 *Radiative Transfer-I* M. Pinar Mengüç,1996 Proceedings of the First International Symposium on Radiative Heat Transfer Includes more than 50 papers on solution methods for the radiative transfer equation transient radiation problems radiative properties of gases inverse radiation problems modeling of comprehensive systems and more ASME Proceedings of the 7th AIAA/ASME Joint Thermophysics and Heat Transfer Conference: Max Jakob award lecture. Theoretical developments in radiative heat transfer. Radiative transfer and interactions with convection in irregular geometries. Fundamentals of combustion. Structure and extinction of fires. Practical combustors Bassem F. Armaly,1998 Proceedings of the conference held June 1998 Topics include various types of heat transfer radiative natural convection turbulent forced convection phase change boiling microscale heat transfer in separated flows porous media energy systems and turbomachinery and such other topics as f Selected Papers on Multiple Scattering in Plane Parallel Atmospheres and Oceans George W. Kattawar,1991 Russian Journal of Numerical Analysis and Mathematical Modelling ,1988 **Soviet Journal of Numerical Analysis and Mathematical Modelling**

,1988   <u>Mathematical Reviews</u> ,2004   <u>Paper</u> ,1991   **International Symposium on Atmospheric and Ocean Optics** ,1999

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