

Alexander G. Ramm

Iterative Methods for Calculating Static Fields and Wave Scattering by Small Bodies



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Iterative Methods For Calculating Static Fields And Wave Scattering By Small Bodies

E. R. Pike, Pierre C. Sabatier



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Iterative Methods for Calculating Static Fields and Wave Scattering by Small Bodies Alexander G Ramm,1982-05-11

Iterative Methods for Calculating Static Fields and Wave Scattering by Small Bodies Alexander G. Ramm,2012-12-06

Iterative methods for calculating static fields are presented in this book Static field boundary value problems are reduced to the boundary integral equations and these equations are solved by means of iterative processes This is done for interior and exterior problems and for various boundary conditions Most problems treated are three dimensional because for two dimensional problems the specific and often powerful tool of conformal mapping is available The iterative methods have some advantages over grid methods and to a certain extent variational methods 1 they give analytic approximate formulas for the field and for some functionals of the field of practical importance such as capacitance and polarizability tensor 2 the formulas for the functionals can be used in a computer program for calculating these functionals for bodies of arbitrary shape 3 iterative methods are convenient for computers From a practical point of view the above methods reduce to the calculation of multiple integrals Of special interest is the case of integrands with weak singularities Some of the central results of the book are some analytic approximate formulas for scattering matrices for small bodies of arbitrary shape These formulas answer many practical questions such as how does the scattering depend on the shape of the body or on the boundary conditions how does one calculate the effective field in a medium consisting of many small particles and many other questions

Wave Scattering By Small Bodies: Creating Materials With A Desired Refraction Coefficient And Other Applications Alexander G Ramm,2023-09-21 The book is a research monograph An asymptotically exact solution of the many body scattering problem is given under the assumption $a \ll d$ where a is the characteristic size of a small particle d is the smallest distance between particles and is the wavelength in the medium in which the particles are embedded Scattering of scalar and electromagnetic waves is considered Heat transfer theory in the medium in which many small bodies are embedded is developed Quantum mechanical theory of scattering by many potentials with small support is constructed On the basis of these theoretical results important applications are presented First a method for creating materials with a desired refraction coefficient is given Secondly a method for creating wave focusing materials is developed Technological problems to be solved for practical usage of these applied results are discussed This book contains the contents of the author's earlier monograph published in 2013 New appendices based on the author's review papers published after 2013 are added

Scattering by Obstacles Alexander G. Ramm,2012-12-06 Approach your problems from the right end It isn't that they can't see the solution It is and begin with the answers Then one day that they can't see the problem perhaps you will find the final question G K Chesterton The Scandal of Father The Hermit Clad in Crane Feathers in R Brown The point of a Pin van Gulik's The Chinese Maze Murders Growing specialization and diversification have brought a host of monographs and textbooks on increasingly specialized topics However the tree of knowledge of mathematics and related fields does not grow

only by putting forth new branches It also happens quite often in fact that branches which were thought to be completely disparate are suddenly seen to be related Further the kind and level of sophistication of mathematics applied in various sciences has changed drastically in recent years measure theory is used non trivially in regional and theoretical economics algebraic geometry interacts with physics the Minkowsky lemma coding theory and the structure of water meet one another in packing and covering theory quantum fields crystal defects and mathematical programming profit from homotopy theory Lie algebras are relevant to filtering and prediction and electrical engineering can use Stein spaces And in addition to this there are such new emerging subdisciplines as experimental mathematics CFD completely integrable systems chaos synergetics and large scale order which are almost impossible to fit into the existing classification schemes They draw upon widely different sections of mathematics

Low Frequency Scattering George Dassios,Ralph Kleinman,2000 Scattering theory deals with the interactions of waves with obstacles in their path and low frequency scattering occurs when the obstacles involved are very small This book gives an overview of the subject for graduates and researchers for the first time unifying the theories covering acoustic electromagnetic and elastic waves

Operator Theory for Electromagnetics George W. Hanson,Alexander B. Yakovlev,2013-03-09 The purpose of this book is to describe methods for solving problems in applied electromagnetic theory using basic concepts from functional analysis and the theory of operators Although the book focuses on certain mathematical fundamentals it is written from an applications perspective for engineers and applied scientists working in this area Part I is intended to be a somewhat self contained introduction to operator theory and functional analysis especially those elements necessary for application to problems in electromagnetics The goal of Part I is to explain and synthesize these topics in a logical manner Examples principally geared toward electromagnetics are provided With the exception of Chapter 1 which serves as a review of basic electromagnetic theory Part I presents definitions and theorems along with associated discussion and examples This style was chosen because it allows one to readily identify the main concepts in a particular section A proof is provided for all theorems whose proof is simple and straightforward A proof is also provided for theorems that require a slightly more elaborate proof yet one that is especially enlightening being either constructive or illustrative Generally theorems are stated but not proved in cases where either the proof is too involved or the details of the proof would take one too far afield of the topic at hand such as requiring additional lemmas that are not clearly useful in applications

Continuous Optimization V. Jeyakumar,Alexander M. Rubinov,2006-03-09 Continuous optimization is the study of problems in which we wish to optimize either maximize or minimize a continuous function usually of several variables often subject to a collection of restrictions on these variables It has its foundation in the development of calculus by Newton and Leibniz in the 17 century Nowadays continuous optimization problems are widespread in the mathematical modelling of real world systems for a very broad range of applications Solution methods for large multivariable constrained continuous optimization problems using computers began with the work of Dantzig in the late

1940s on the simplex method for linear programming problems Recent research in continuous optimization has produced a variety of theoretical developments solution methods and new areas of applications It is impossible to give a full account of the current trends and modern applications of continuous optimization It is our intention to present a number of topics in order to show the spectrum of current research activities and the development of numerical methods and applications

Inverse Problems Alexander G. Ramm, 2005-12-19 Inverse Problems is a monograph which contains a self contained presentation of the theory of several major inverse problems and the closely related results from the theory of ill posed problems The book is aimed at a large audience which include graduate students and researchers in mathematical physical and engineering sciences and in the area of numerical analysis

Operator Theory and Its Applications Alexander G. Ramm, P. N. Shivakumar, Abraham Vilgelmovich Strauss, 2000 Together with the papers on the abstract operator theory are many papers on the theory of differential operators boundary value problems inverse scattering and other inverse problems and on applications to biology chemistry wave propagation and many other areas **BOOK JACKET**

Scattering, Two-Volume Set E. R. Pike, Pierre C. Sabatier, 2002 Part 1 SCATTERING OF WAVES BY MACROSCOPIC TARGET Interdisciplinary aspects of wave scattering Acoustic scattering Acoustic scattering approximate methods Electromagnetic wave scattering theory Electromagnetic wave scattering approximate and numerical methods Electromagnetic wave scattering applications Elastodynamic wave scattering theory Elastodynamic wave scattering Applications Scattering in Oceans Part 2 SCATTERING IN MICROSCOPIC PHYSICS AND CHEMICAL PHYSICS Introduction to direct potential scattering Introduction to Inverse Potential Scattering Visible and Near visible Light Scattering Practical Aspects of Visible and Near visible Light Scattering Nonlinear Light Scattering Atomic and Molecular Scattering Introduction to Scattering in Chemical X ray Scattering Neutron Scattering Electron Diffraction and Scattering Part 3 SCATTERING IN NUCLEAR PHYSICS Nuclear Physics Part 4 PARTICLE SCATTERING State of the Art of Perturbative Methods Scattering Through Electro weak Interactions the Fermi Scale Scattering Through Strong Interactions the Hadronic or QCD Scale Part 5 SCATTERING AT EXTREME PHYSICAL SCALES Scattering at Extreme Physical Scales Part 6 SCATTERING IN MATHEMATICS AND NON PHYSICAL SCIENCES Relations with Other Mathematical Theories Inverse Scattering Transform and Non linear Partial Differential Equations Scattering of Mathematical Objects

Numerical Integration III HÄMMERLIN, BRASS, 2013-12-14 **Reviews in Numerical Analysis, 1980-86**, 1987 These five volumes bring together a wealth of bibliographic information in the area of numerical analysis Containing over 17 600 reviews of articles books and conference proceedings these volumes represent all the numerical analysis entries that appeared in Mathematical Reviews between 1980 and 1986 Author and key indexes appear at the end of volume 5

Theory and Applications of Some New Classes of Integral Equations Alexander G. Ramm, 2012-12-06 This book is intended for numerical examples showing the practical utility of these formulas two sided variational estimates for the polarizability tensor and some open problems such

as working out a standard program for calculating the capacitance and polarizability of bodies of arbitrary shape and numerical calculation of multiple integrals with weak singularities Readers interested in nonlinear vibration theory will find a new method for qualitative study of stationary regimes in the general one loop passive nonlinear network including stability in the large convergence and an iterative process for calculation the stationary regime No assumptions concerning the smallness of the nonlinearity or the filter property of the linear one port are made New results in the theory of nonlinear operator equations form the basis for the study

Inverse Methods in Electromagnetic Imaging Wolfgang M. Boerner, 1985 *Revue Roumaine de Mathématiques Pures Et Appliquées*, 1984

Scattering By Obstacles And Potentials Alexander G Ramm, 2017-11-23 The book is important as it contains results many of which are not available in the literature except in the author's papers Among other things it gives uniqueness theorems for inverse scattering problems when the data are non over determined numerical method for solving inverse scattering problems a method MRC for solving direct scattering problem *Geophysics & Tectonics Abstracts*, 1982

The Cumulative Book Index, 1983 A world list of books in the English language

Multidimensional Inverse Scattering Problems Alexander G. Ramm, 1992

The American Mathematical Monthly, 1983

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