Alexander G. Ramm

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

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George W. Hanson,Alexander B. Yakovlev

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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 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 var ious 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 ad vantages 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 cal culation of multiple integrals Of special interest is the case of inte grands 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   Continuous Optimization V. Jeyakumar,Alexander M. Rubinov,2006-03-09 Continuous optimization is the study of problems in which we wish to opti mize 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 Nowadys 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 optimiza tion problems using computers began with the work of Dantzig in the late 1940s on the simplex method for linear programming problems Recent re search in continuous optimization has produced a variety of theoretical devel opments solution methods and new areas of applications It is impossible to give a full account of the current trends and modern applications of contin uous 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 **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 anal ysis 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 op erator theory and functional analysis especially those elements necessary for application to problems in electromagnetics The goal of Part I is to ex plain 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 Numerical Integration III HÄMMERLIN,BRASS,2013-12-14 **Revue Roumaine de Mathématiques Pures Et Appliquées** ,1984 **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 pol arizability 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 stabil ity 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 *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 Geophysics & Tectonics Abstracts ,1982 Acta Scientiarum Mathematicarum ,1982 **Mathematical Sciences Research Hot-line** ,1997 **Notices of the American Mathematical Society** American Mathematical

Society,1982   **Mesoscopic Quantum Physics** Université Joseph Fourier,1995 These proceedings focus on aspects of disorder where quantum interferences are present All recent developments in the field are covered and the book is organized with particular attention to pedagogy It includes both a description of the physical phenomena and a review of methods

Mathematical Reviews ,2008   Review of Radio Science ,1984

Unveiling the Magic of Words: A Overview of "**Iterative Methods For Calculating Static Fields And Wave Scattering By Small Bodies**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Iterative Methods For Calculating Static Fields And Wave Scattering By Small Bodies**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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

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