Applied Mathematical Sciences

Fioralba Cakoni David Colton

A Qualitative Approach to Inverse Scattering Theory



A Qualitative Approach To Inverse Scattering Theory Applied Mathematical Sciences

Pham Loi Vu

A Qualitative Approach To Inverse Scattering Theory Applied Mathematical Sciences:

A Qualitative Approach to Inverse Scattering Theory Fioralba Cakoni, David Colton, 2013-10-28 Inverse scattering theory is an important area of applied mathematics due to its central role in such areas as medical imaging nondestructive testing and geophysical exploration Until recently all existing algorithms for solving inverse scattering problems were based on using either a weak scattering assumption or on the use of nonlinear optimization techniques. The limitations of these methods have led in recent years to an alternative approach to the inverse scattering problem which avoids the incorrect model assumptions inherent in the use of weak scattering approximations as well as the strong a priori information needed in order to implement nonlinear optimization techniques These new methods come under the general title of qualitative methods in inverse scattering theory and seek to determine an approximation to the shape of the scattering object as well as estimates on its material properties without making any weak scattering assumption and using essentially no a priori information on the nature of the scattering object This book is designed to be an introduction to this new approach in inverse scattering theory focusing on the use of sampling methods and transmission eigenvalues In order to aid the reader coming from a discipline outside of mathematics we have included background material on functional analysis Sobolev spaces the theory of ill posed problems and certain topics in in the theory of entire functions of a complex variable This book is an updated and expanded version of an earlier book by the authors published by Springer titled Qualitative Methods in Inverse Scattering Theory Review of Qualitative Methods in Inverse Scattering Theory All in all the authors do exceptionally well in combining such a wide variety of mathematical material and in presenting it in a well organized and easy to follow fashion This text certainly complements the growing body of work in inverse scattering and should well suit both new researchers to the field as well as those who could benefit from such a nice codified collection of profitable results combined in one bound volume SIAM Review 2006 Inverse Scattering Theory and Transmission Eigenvalues Fioralba Cakoni, David Colton, Houssem Haddar, 2022-12-07 Inverse scattering theory is a major theme in applied mathematics with applications to such diverse areas as medical imaging geophysical exploration and nondestructive testing The inverse scattering problem is both nonlinear and ill posed thus presenting challenges in the development of efficient inversion algorithms A further complication is that anisotropic materials cannot be uniquely determined from given scattering data In the first edition of Inverse Scattering Theory and Transmission Eigenvalues the authors discussed methods for determining the support of inhomogeneous media from measured far field data and the role of transmission eigenvalue problems in the mathematical development of these methods In this second edition three new chapters describe recent developments in inverse scattering theory In particular the authors explore the use of modified background media in the nondestructive testing of materials and methods for determining the modified transmission eigenvalues that arise in such applications from measured far field data They also examine nonscattering wave numbers a subset of transmission eigenvalues using techniques taken from the theory

of free boundary value problems for elliptic partial differential equations and discuss the dualism of scattering poles and transmission eigenvalues that has led to new methods for the numerical computation of scattering poles This book will be of interest to research mathematicians and engineers and physicists working on problems in target identification It will also be useful to advanced graduate students in many areas of applied mathematics *Oualitative Methods in Inverse Scattering* Theory Fioralba Cakoni, David Colton, 2005-12-29 Inverse scattering theory has been a particularly active and successful field in applied mathematics and engineering for the past twenty years. The increasing demands of imaging and target identification require new powerful and flexible techniques besides the existing weak scattering approximation or nonlinear optimization methods. One class of such methods comes under the general description of qualitative methods in inverse scattering theory This textbook is an easily accessible class tested introduction to the field It is accessible also to readers who are not professional mathematicians thus making these new mathematical ideas in inverse scattering theory available to the wider scientific and engineering community **Parameter Estimation of Nonlinear Random Medium by Scattered Electromagnetic Fields** Manisha Khulbe, Harish Parthasarathy, 2023-10-16 This book is on the nonlinear random medium analysis that includes subtopics of terahertz imaging inverse scattering plasmonics quantum optics communication laser modes and terahertz photonic antennas Here in this book a mathematical framework is developed to analyze the impact of Inverse Scattering Problems and Their Application to dimensions and chemical potential on nano antenna channels Nonlinear Integrable Equations Pham Loi Vu, 2023-05-15 Inverse Scattering Problems and Their Applications to Nonlinear Integrable Equations Second Edition is devoted to inverse scattering problems ISPs for differential equations and their applications to nonlinear evolution equations NLEEs The book is suitable for anyone who has a mathematical background and interest in functional analysis differential equations and equations of mathematical physics This book is intended for a wide community working with ISPs and their applications There is an especially strong traditional community in mathematical physics In this monograph the problems are presented step by step and detailed proofs are given for considered problems to make the topics more accessible for students who are approaching them for the first time New to the Second Edition All new chapter dealing with the B cklund transformations between a common solution of both linear equations in the Lax pair and the solution of the associated IBVP for NLEEs on the half line Updated references and concluding remarks Features Solving the direct and ISP then solving the associated initial value problem IVP or initial boundary value problem IBVP for NLEEs are carried out step by step The unknown boundary values are calculated with the help of the Lax generalized equations then the time dependent scattering data SD are expressed in terms of preassigned initial and boundary conditions Thereby the potential functions are recovered uniquely in terms of the given initial and calculated boundary conditions The unique solvability of the ISP is proved and the SD of the scattering problem is described completely The considered ISPs are well solved The ISPs are set up appropriately for constructing the B ckhund

transformations BTs for solutions of associated IBVPs or IVPs for NLEEs The procedure for finding a BT for the IBVP for NLEEs on the half line differs from the one used for obtaining a BT for non linear differential equations defined in the whole space The interrelations between the ISPs and the constructed BTs are established to become new powerful unified transformations UTs for solving IBVPs or IVPs for NLEEs that can be used in different areas of physics and mechanics The application of the UTs is consistent and efficiently embedded in the scheme of the associated ISP Fourier Series. Fourier Transform and Their Applications to Mathematical Physics Valery Serov, 2017-11-26 This text serves as an introduction to the modern theory of analysis and differential equations with applications in mathematical physics and engineering sciences Having outgrown from a series of half semester courses given at University of Oulu this book consists of four self contained parts The first part Fourier Series and the Discrete Fourier Transform is devoted to the classical one dimensional trigonometric Fourier series with some applications to PDEs and signal processing The second part Fourier Transform and Distributions is concerned with distribution theory of L Schwartz and its applications to the Schr dinger and magnetic Schr dinger operations The third part Operator Theory and Integral Equations is devoted mostly to the self adjoint but unbounded operators in Hilbert spaces and their applications to integral equations in such spaces The fourth and final part Introduction to Partial Differential Equations serves as an introduction to modern methods for classical theory of partial differential equations Complete with nearly 250 exercises throughout this text is intended for graduate level students and researchers in the mathematical sciences and engineering Numerical Methods for Inverse Scattering Problems Jingzhi Li, Hongyu Liu, 2023-09-07 This book highlights the latest developments on the numerical methods for inverse scattering problems associated with acoustic electromagnetic and elastic waves Inverse scattering problems are concerned with identifying unknown or inaccessible objects by wave probing data which makes possible many industrial and engineering applications including radar and sonar medical imaging nondestructive testing remote sensing and geophysical exploration The mathematical study of inverse scattering problems is an active field of research This book presents a comprehensive and unified mathematical treatment of various inverse scattering problems mainly from a numerical reconstruction perspective It highlights the collaborative research outputs by the two groups of the authors yet surveys and reviews many existing results by global researchers in the literature The book consists of three parts respectively corresponding to the studies on acoustic electromagnetic and elastic scattering problems In each part the authors start with in depth theoretical and computational treatments of the forward scattering problems and then discuss various numerical reconstruction schemes for the associated inverse scattering problems in different scenarios of practical interest In addition the authors provide an overview of the existing results in the literature by other researchers. This book can serve as a handy reference for researchers or practitioners who are working on or implementing inverse scattering methods It can also serve as a graduate textbook for research students who are interested in working on numerical algorithms for inverse scattering problems Maxwell

Equation: Inverse Scattering In Electromagnetism Hiroshi Isozaki, 2018-07-12 How can one determine the physical properties of the medium or the geometrical properties of the domain by observing electromagnetic waves To answer this fundamental problem in mathematics and physics this book leads the reader to the frontier of inverse scattering theory for electromagnetism The first three chapters written comprehensively can be used as a textbook for undergraduate students Beginning with elementary vector calculus this book provides fundamental results for wave equations and Helmholtz equations and summarizes the potential theory It also explains the cohomology theory in an easy and straightforward way which is an essential part of electromagnetism related to geometry It then describes the scattering theory for the Maxwell equation by the time dependent method and also by the stationary method in a concise but almost self contained manner Based on these preliminary results the book proceeds to the inverse problem for the Maxwell equation The chapters for the potential theory and elementary cohomology theory are good introduction to graduate students. The results in the last chapter on the inverse scattering for the medium and the determination of Betti numbers are new and will give a current scope for the inverse spectral problem on non compact manifolds It will be useful for young researchers who are interested in this field and trying to find new problems Mathematical Analysis of Continuum Mechanics and Industrial Applications Hiromichi Itou, Masato Kimura, Vladimír Chalupecký, Kohji Ohtsuka, Daisuke Tagami, Akira Takada, 2016-11-18 This book focuses on mathematical theory and numerical simulation related to various aspects of continuum mechanics such as fracture mechanics elasticity plasticity pattern dynamics inverse problems optimal shape design material design and disaster estimation related to earthquakes Because these problems have become more important in engineering and industry further development of mathematical study of them is required for future applications Leading researchers with profound knowledge of mathematical analysis from the fields of applied mathematics physics seismology engineering and industry provide the contents of this book They help readers to understand that mathematical theory can be applied not only to different types of industry but also to a broad range of industrial problems including materials processes and products Inverse Problems and Applications Plamen Stefanov, András Vasy, Maciej Zworski, 2014-05-05 This volume contains the proceedings of two conferences on Inverse Problems and Applications held in 2012 to celebrate the work of Gunther Uhlmann The first conference was held at the University of California Irvine from June 18 22 2012 and the second was held at Zhejiang University Hangzhou China from September 17 21 2012 The topics covered include inverse problems in medical imaging scattering theory geometry and image processing and the mathematical theory of cloaking as well as methods related to Inverse Problems in Medical Imaging and Nondestructive Testing Heinz W. Engl, Alfred K. inverse problems Louis, William Rundell, 2012-12-06 14 contributions present mathematical models for different imaging techniques in medicine and nondestructive testing The underlying mathematical models are presented in a way that also newcomers in the field have a chance to understand the relation between the special applications and the mathematics needed for successfully

treating these problems The reader gets an insight into a modern field of scientific computing with applications formerly not **Linear and Nonlinear Inverse Problems** presented in such form leading from the basics to actual research activities with Practical Applications Jennifer L. Mueller, Samuli Siltanen, 2012-11-30 Inverse problems arise in practical applications whenever there is a need to interpret indirect measurements This book explains how to identify ill posed inverse problems arising in practice and gives a hands on guide to designing computational solution methods for them with related codes on an accompanying website The guiding linear inversion examples are the problem of image deblurring x ray tomography and backward parabolic problems including heat transfer A thorough treatment of electrical impedance tomography is used as the guiding nonlinear inversion example which combines the analytic geometric research tradition and the regularization based school of thought in a fruitful manner This book is complete with exercises and project topics making it ideal as a classroom textbook or self study guide for graduate and advanced undergraduate students in mathematics engineering or physics who wish to learn about computational inversion It also acts as a useful guide for researchers who develop inversion **Emerging Electromagnetic Technologies for Brain Diseases Diagnostics**, techniques in high tech industry Monitoring and Therapy Lorenzo Crocco, Irene Karanasiou, Michael L James, Raquel Cruz Conceição, 2018-03-10 This timely book presents innovative technologies for use in the diagnosis monitoring and treatment of brain disease These technologies offer exciting possibilities in the medical field owing to their low cost portability and safety The authors address cerebrovascular diseases such as stroke ischemia haemorrhage and vasospasm these diseases having an ever increasing societal relevance due to the global ageing population The authors describe the potential of novel techniques such as microwave imaging and present innovative modalities for treatment of brain tumours using electromagnetic fields and nano composites as well as for monitoring brain temperature during surgery Finally Emerging Electromagnetic Technologies for Brain Diseases Diagnostics Monitoring and Therapy addresses the perspectives which arise from multi modal multi spectral EM modalities which make a synergic use of the different portions of the electromagnetic spectrum This text will be of interest to readers from various different areas given the fundamental interdisciplinarity of the subject matter This includes researchers or practitioners in the field of electrical engineering applied physicists and applied mathematicians working on imaging applications for biomedical and electromagnetic technologies Neurologists and radiologists may also find this book of interest as may graduate students in these areas Encyclopedia of Nonlinear Science Alwyn Scott, 2006-05-17 In 438 alphabetically arranged essays this work provides a useful overview of the core mathematical background for nonlinear science as well as its applications to key problems in ecology and biological systems chemical reaction diffusion problems geophysics economics electrical and mechanical oscillations in engineering systems lasers and nonlinear optics fluid mechanics and turbulence and condensed matter physics among others

Linear Operator Theory in Engineering and Science Arch W. Naylor, George R. Sell, 1982 This book is a unique introduction to the theory of linear operators on Hilbert

space The authors goal is to present the basic facts of functional analysis in a form suitable for engineers scientists and applied mathematicians Although the Definition Theorem Proof format of mathematics is used careful attention is given to motivation of the material covered and many illustrative examples are presented First published in 1971 Linear Operator in Engineering and Sciences has since proved to be a popular and very useful textbook Electronic Engineering and Information Science Dongxing Wang, 2015-06-11 The International Conference of Electronic Engineering and Information Science 2015 ICEEIS 2015 was held on January 17 18 2015 Harbin China This proceedings volume assembles papers from various researchers engineers and educators engaged in the fields of electronic engineering and information science The papers in this proceedings Inverse Acoustic and Electromagnetic Scattering Theory David Colton, Rainer Kress, 2013-04-17 It has now been almost ten years since our first book on scattering theory ap peared 32 At that time we claimed that in recent years the development of integral equation methods for the direct scattering problem seems to be nearing completion whereas the use of such an approach to study the inverse scattering problem has progressed to an extent that a state of the art survey appears highly desirable Since we wrote these words the inverse scattering problem for acoustic and electromagnetic waves has grown from being a few theoretical considerations with limited numerical implementations to a weH developed mathematical theory with tested numerical algorithms This maturing of the field of inverse scattering theory has been based on the realization that such problems are in general not only nonlinear but also improperly posed in the sense that the solution does not depend continuously on the measured data This was emphasized in 32 and treated with the ideas and tools available at that time Now almost ten years later these initial ideas have developed to the extent that a monograph summarizing the mathematical basis of the field seems appropriate This book is oUf attempt to write such a monograph The inverse scattering problem for acoustic and electromagnetic waves can broadly be divided into two classes the inverse obstacle problem and the inverse medium problem Generalized Radon Transforms And Imaging By Scattered Particles: Broken Rays, Cones, And Stars In Tomography Gaik Ambartsoumian, 2023-03-14 A generalized Radon transform GRT maps a function to its weighted integrals along a family of curves or surfaces Such operators appear in mathematical models of various imaging modalities The GRTs integrating along smooth curves and surfaces lines planes circles spheres amongst others have been studied at great lengths for decades but relatively little attention has been paid to transforms integrating along non smooth trajectories Recently an interesting new class of GRTs emerged at the forefront of research in integral geometry The two common features of these transforms are the presence of a vertex in their paths of integration broken rays cones and stars and their relation to imaging techniques based on physics of scattered particles Compton camera imaging single scattering tomography etc This book covers the relevant imaging modalities their mathematical models and the related GRTs The discussion of the latter comprises a thorough exploration of their known mathematical properties including injectivity inversion range description and microlocal analysis The mathematical

background required for reading most of the book is at the level of an advanced undergraduate student which should make its content attractive for a large audience of specialists interested in imaging Mathematicians may appreciate certain parts of the theory that are particularly elegant with connections to functional analysis PDEs and algebraic geometry **Partial Differential Equations II** Michael E. Taylor,2010-11-02 This second in the series of three volumes builds upon the basic theory of linear PDE given in volume 1 and pursues more advanced topics Analytical tools introduced here include pseudodifferential operators the functional analysis of self adjoint operators and Wiener measure The book also develops basic differential geometrical concepts centred about curvature Topics covered include spectral theory of elliptic differential operators the theory of scattering of waves by obstacles index theory for Dirac operators and Brownian motion and diffusion

Applications of Mathematics and Informatics in Science and Engineering Nicholas J. Daras, 2014-04-30 Analysis assessment and data management are core competencies for operation research analysts This volume addresses a number of issues and developed methods for improving those skills It is an outgrowth of a conference held in April 2013 at the Hellenic Military Academy and brings together a broad variety of mathematical methods and theories with several applications It discusses directions and pursuits of scientists that pertain to engineering sciences It is also presents the theoretical background required for algorithms and techniques applied to a large variety of concrete problems A number of open questions as well as new future areas are also highlighted This book will appeal to operations research analysts engineers community decision makers academics the military community practitioners sharing the current state of the art and analysts from coalition partners Topics covered include Operations Research Games and Control Theory Computational Number Theory and Information Security Scientific Computing and Applications Statistical Modeling and Applications Systems of Monitoring and Spatial Analysis

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