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DIRECT METHODS OF SOLVING MULTIDIMENSIONAL INVERSE HYPERBOLIC PROBLEMS

INVERSE AND ILL-POSED PROBLEMS SERIES

Direct Methods Of Solving Multidimensional Inverse Hyperbolic Problems Inverse And Illposed Problems Series V 48

Remi Abgrall, Chi-Wang Shu



Direct Methods Of Solving Multidimensional Inverse Hyperbolic Problems Inverse And Illposed Problems Series V 48:

Direct Methods of Solving Multidimensional Inverse Hyperbolic Problems Sergey I. Kabanikhin, Abdigany D. Satybaev, Maxim A. Shishlenin, 2013-04-09 The authors consider dynamic types of inverse problems in which the additional information is given by the trace of the direct problem on a usually time like surface of the domain They discuss theoretical and numerical background of the finite difference scheme inversion the linearization method the method of Gel fand Levitan Krein the boundary control method and the projection method and prove theorems of convergence conditional stability and other properties of the mentioned methods

Gas Dynamics with Applications in Industry and Life Sciences Mohammad Asadzadeh, Larisa Beilina, Shigeru Takata, 2023-10-30 This proceedings volume gathers selected contributions presented at two instances of the JSPS SAC Seminar On Gas Kinetic Dynamics and Life Science held by the Chalmers University of Technology and University of Gothenburg Sweden on March 25 26 2021 virtual and March 17 18 2022 virtual Works in this book provide a concise approach to the theoretical and numerical analysis of kinetic type equations that arise for example in modeling industrial medical and environmental problems Readers will find some of the most recent theoretical results newly developed numerical methods in the field and some open problems Possible application areas encompass fission fusion energy electromagnetics nuclear science and engineering medical service radiation oncology and plants growth conditions to name a few The JSPS SAC seminars are jointly organized by JSPS Japan Society for the Promotion of Science Stockholm Office and the Department of Mathematical Sciences Chalmers University of Technology University of Gothenburg Sweden These seminars foster discussions on the mathematical theory industrial and life science applications and numerical analysis of non linear hyperbolic partial differential equations modeling collision less plasma and charged particles Chapter 4 is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com) Chapter 11 is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com)

American Book Publishing Record, 2003 Mathematical Reviews, 2005 Methods for Solving Inverse Problems in Mathematical Physics Global Express Ltd. Co., Aleksey I. Prilepko, Dmitry G. Orlovsky, Igor A. Vasin, 2000-03-21 Developing an approach to the question of existence uniqueness and stability of solutions this work presents a systematic elaboration of the theory of inverse problems for all principal types of partial differential equations It covers up to date methods of linear and nonlinear analysis the theory of differential equations in Banach spaces app

Investigation Methods for Inverse Problems Vladimir G. Romanov, 2014-10-10 This monograph deals with some inverse problems of mathematical physics It introduces new methods for studying inverse problems and gives obtained results which are related to the conditional well posedness of the problems The main focus lies on time domain inverse problems for hyperbolic equations and the kinetic transport equation

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 Forward and Inverse Problems for Hyperbolic, Elliptic and Mixed Type Equations Alexander G. Megrabov, 2012-05-24 Inverse problems are an important and rapidly developing direction in mathematics mathematical physics differential equations and various applied technologies geophysics optic tomography remote sensing radar location etc In this monograph direct and inverse problems for partial differential equations are considered The type of equations focused are hyperbolic elliptic and mixed elliptic hyperbolic The direct problems arise as generalizations of problems of scattering plane elastic or acoustic waves from inhomogeneous layer or from half space The inverse problems are those of determination of medium parameters by giving the forms of incident and reflected waves or the vibrations of certain points of the medium The method of research of all inverse problems is spectral analytical consisting in reducing the considered inverse problems to the known inverse problems for the Sturm Liouville equation or the string equation Besides the book considers discrete inverse problems In these problems an arbitrary set of point sources emissive sources oscillators point masses is determined *Iterative Methods for Solving Inverse and Ill-posed Problems with Data Given on the Part of the Boundary* Sergey I. Kabanikhin, M. F. Bektemesov, A. T. Nurseitova, 2013-04-20 Solving inverse problems means the determination of shape or consistency of inaccessible objects from indirect measurements Those problems arise in many applications e g medical imaging and earth surface explorations The mathematical modelling of some of those problems leads to inverse problems for boundary value problems for differential equations with incomplete given data The present book provides an introduction to the numerical solution of the latter class of problems **Kernel Determination Problems in Hyperbolic Integro-Differential Equations** Durdimurod K. Durdiev, Zhanna D. Totieva, 2023-06-18 This book studies the construction methods for solving one dimensional and multidimensional inverse dynamical problems for hyperbolic equations with memory The theorems of uniqueness stability and existence of solutions of these inverse problems are obtained This book discusses the processes by using generalized solutions the spread of elastic or electromagnetic waves arising from sources of the type of pulsed directional impacts or explosions This book presents new results in the study of local and global solvability of kernel determination problems for a half space It describes the problems of reconstructing the coefficients of differential equations and the convolution kernel of hyperbolic integro differential equations by the method of Dirichlet to Neumann The book will be useful for researchers and students specializing in the field of inverse problems of mathematical physics *Integral Geometry and Inverse Problems for Hyperbolic Equations* Vladimir Gavrilovich Romanov, 1974 **Linear and Nonlinear Inverse Problems 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 techniques in high tech industry

The Mollification Method and the Numerical Solution of Ill-Posed Problems Diego A. Murio, 2011-03-29 Uses a strong computational and truly interdisciplinary treatment to introduce applied inverse theory The author created the Mollification Method as a means of dealing with ill posed problems Although the presentation focuses on problems with origins in mechanical engineering many of the ideas and techniques can be easily applied to a broad range of situations

Forward and Inverse Problems for Hyperbolic, Elliptic and Mixed Type Equations A. G. Megrabov, **Methods for Solution of Nonlinear Operator Equations** Vitalii Pavlovich Tanana, 1997 The Inverse and Ill Posed Problems Series is a series of monographs publishing postgraduate level information on inverse and ill posed problems for an international readership of professional scientists and researchers The series aims to publish works which involve both theory and applications in e g physics medicine geophysics acoustics electrodynamics tomography and ecology

Handbook of Numerical Methods for Hyperbolic Problems Remi Abgrall, Chi-Wang Shu, 2017-01-16 Handbook on Numerical Methods for Hyperbolic Problems Applied and Modern Issues details the large amount of literature in the design analysis and application of various numerical algorithms for solving hyperbolic equations that has been produced in the last several decades This volume provides concise summaries from experts in different types of algorithms so that readers can find a variety of algorithms under different situations and become familiar with their relative advantages and limitations Provides detailed cutting edge background explanations of existing algorithms and their analysis Presents a method of different algorithms for specific applications and the relative advantages and limitations of different algorithms for engineers or those involved in applications Written by leading subject experts in each field the volumes provide breadth and depth of content coverage

Multidimensional Hyperbolic Problems and Computations James Glimm, Andrew J. Majda, 2012-12-06 This IMA Volume in Mathematics and its Applications MULTIDIMENSIONAL HYPERBOLIC PROBLEMS AND COMPUTATIONS is based on the proceedings of a workshop which was an integral part of the 1988 89 IMA program on NONLINEAR WAVES We are grateful to the Scientific Committee James Glimm Daniel Joseph Barbara Keyfitz Andrew Majda Alan Newell Peter Olver David Sattinger and David Schaeffer for planning and implementing an exciting and stimulating year long program We especially thank the Workshop Organizers Andrew Majda and James Glimm for bringing together many of the major figures in a variety of research fields

connected with multidimensional hyperbolic problems A vner Friedman Willard Miller PREFACE A primary goal of the IMA workshop on Multidimensional Hyperbolic Problems and Computations from April 3 14 1989 was to emphasize the interdisciplinary nature of contemporary research in this field involving the combination of ideas from the theory of nonlinear partial differential equations asymptotic methods numerical computation and experiments The twenty six papers in this volume span a wide cross section of this research including some papers on the kinetic theory of gases and vortex sheets for incompressible flow in addition to many papers on systems of hyperbolic conservation laws This volume includes several papers on asymptotic methods such as nonlinear geometric optics a number of articles applying numerical algorithms such as higher order Godunov methods and front tracking to physical problems along with comparison to experimental data and also several interesting papers on the rigorous mathematical theory of shock waves Багровый остров ,1990 Inverse Scattering Problems and Their Application to 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 **Conjugate Gradient Type Methods for Ill-Posed Problems** Martin Hanke,2017-11-22 The conjugate gradient method is a powerful tool for the

iterative solution of self adjoint operator equations in Hilbert space This volume summarizes and extends the developments of the past decade concerning the applicability of the conjugate gradient method and some of its variants to ill posed problems and their regularization Such problems occur in applications from almost all natural and technical sciences including astronomical and geophysical imaging signal analysis computerized tomography inverse heat transfer problems and many more This Research Note presents a unifying analysis of an entire family of conjugate gradient type methods Most of the results are as yet unpublished or obscured in the Russian literature Beginning with the original results by Nemirovskii and others for minimal residual type methods equally sharp convergence results are then derived with a different technique for the classical Hestenes Stiefel algorithm In the final chapter some of these results are extended to selfadjoint indefinite operator equations The main tool for the analysis is the connection of conjugate gradient type methods to real orthogonal polynomials and elementary properties of these polynomials These prerequisites are provided in a first chapter Applications to image reconstruction and inverse heat transfer problems are pointed out and exemplarily numerical results are shown for these applications

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