

INVERSE AND ILL-POSED PROBLEMS SERIES

Transport Equation and Tomography

D.S. Anikonov, A.E. Kovtanyuk and I.V. Prokhorov

Transport Equation And Tomography Inverse And Ill Posed Problems

Gunther Uhlmann



Transport Equation And Tomography Inverse And Ill Posed Problems:

Transport Equation and Tomography D. S. Anikonov, A. E. Kovtanyuk, 2002 This book deals mainly with the results of the authors research devoted to both the study of the transport equation the linear Boltzmann equation and its applications in X ray tomography The introduction gives an outline of the book and deals with certain aspects of the methodology The first part of the book is devoted to the investigation of known and new problems for the stationary transport equation of a general form New problems are treated as problems of tomography The second part deals with the monoenergetic transport equation This book will be of interest to specialists in transport theory and tomography **Inverse and Ill-posed Problems** Sergey I. Kabanikhin, 2011-12-23 The theory of ill posed problems originated in an unusual way As a rule a new concept is a subject in which its creator takes a keen interest The concept of ill posed problems was introduced by Hadamard with the comment that these problems are physically meaningless and not worthy of the attention of serious researchers Despite Hadamard s pessimistic forecasts however his unloved child has turned into a powerful theory whose results are used in many fields of pure and applied mathematics What is the secret of its success The answer is clear Ill posed problems occur everywhere and it is unreasonable to ignore them Unlike ill posed problems inverse problems have no strict mathematical definition In general they can be described as the task of recovering a part of the data of a corresponding direct well posed problem from information about its solution Inverse problems were first encountered in practice and are mostly ill posed The urgent need for their solution especially in geological exploration and medical diagnostics has given powerful impetus to the development of the theory of ill posed problems Nowadays the terms inverse problem and ill posed problem are inextricably linked to each other Inverse and ill posed problems are currently attracting great interest A vast literature is devoted to these problems making it necessary to systematize the accumulated material This book is the first small step in that direction We propose a classification of inverse problems according to the type of equation unknowns and additional information We consider specific problems from a single position and indicate relationships between them The problems relate to different areas of mathematics such as linear algebra theory of integral equations integral geometry spectral theory and mathematical physics We give examples of applied problems that can be studied using the techniques we describe This book was conceived as a textbook on the foundations of the theory of inverse and ill posed problems for university students The author s intention was to explain this complex material in the most accessible way possible The monograph is aimed primarily at those who are just beginning to get to grips with inverse and ill posed problems but we hope that it will be useful to anyone who is interested in the subject **Formulas in Inverse and Ill-Posed Problems** Yu. E. Anikonov, 2014-07-24 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 **Formulas**

in Inverse and Ill-Posed Problems IU. IUrii Evgenevich Anikonov, Yuri Evgen'evich Anikonov, 1997-01-01 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

Multidimensional Inverse and Ill-Posed Problems for Differential Equations Yu. E. Anikonov, 2014-07-24 Inverse problems are usually nonlinear and are separated into one dimensional and multidimensional problems depending on whether the sought function or functions is a function of one variable or of many Multidimensionality of inverse problems has particular value at present because practice shows that many investigating processes are described by an equation of which the coefficient essentially depends on many variables This monograph is devoted to statements of multidimensional inverse problems in particular to methods of their investigation Questions of the uniqueness of solution solvability and stability are studied Methods to construct a solution are given and in certain cases inversion formulas are given as well Concrete applications of the theory developed here are also given Where possible the author has stopped to consider the method of investigation of the problems thereby sometimes losing generality and quantity of the problems which can be examined by such a method The book should be of interest to researchers in the field of applied mathematics geophysics and mathematical biology

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Tomography and Inverse Transport Theory Guillaume Bal, 2011 This volume contains research and review articles written by participants of two related international workshops Mathematical Methods in Emerging Modalities of Medical Imaging October 2009 and Inverse Transport Theory and Tomography May 2010 which were held at the Banff International Research Station in Banff Canada These workshops brought together mathematicians physicists engineers and medical researchers working at the cutting edge of medical imaging research and addressed the demanding mathematical problems arising in this area The articles written by leading experts address important analytic numerical and physical issues of the newly developing imaging modalities e g photoacoustics current impedance imaging hybrid imaging techniques elasticity imaging as well as the recent progress in resolving outstanding problems of more traditional modalities such as SPECT ultrasound imaging and inverse transport theory Related topics of invisibility cloaking are also addressed

Ill-Posed Problems in Natural Sciences

Andrei N. Tikhonov,2020-05-18 No detailed description available for Ill Posed Problems in Natural Sciences *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 Poorly Visible Media in X-Ray Tomography V. G. Nazarov,Iu. V. Prokhorov,2002-01-01 The tomography problem considered in this volume of the Inverse and Ill Posed Problems Series consists of finding an essential part of information about the internal structure of an unknown medium More particularly the contact boundaries between various materials in the medium are sought This investigation is implemented by studying an appropriate mathematical model which is represented as a transport equation linear Boltzmann s equation together with certain boundary conditions Both theoretical and numerical methods have been used and the results consist of proved theorems computer testing of the corresponding algorithms together with a number of tables This book may be considered as a continuation and application of Transport Equation and Tomography by D S Anikonov A E Kovtanyuk and I V Prokhorov previously published in this series *Frontiers And Prospects Of Contemporary Applied Mathematics* Pingwen Zhang,Tatsien Li,2006-04-17 This collection of articles covers the hottest topics in contemporary applied mathematics Multiscale modeling material computing symplectic methods parallel computing mathematical biology applied differential equations and engineering computing problems are all included The book contains the latest results of many leading scientists and provides a window on new trends in research in the field Iterative Methods for Ill-posed Problems Anatoly B. Bakushinsky,Александра Борисовна Смирнова,2011 Ill posed problems are encountered in countless areas of real world science and technology A variety of processes in science and engineering is commonly modeled by algebraic differential integral and other equations In a more difficult case it can be systems of equations combined with the associated initial and boundary conditions Frequently the study of applied optimization problems is also reduced to solving the corresponding equations These equations encountered both in theoretical and applied areas may naturally be classified as operator equations The current textbook will focus on iterative methods for operator equations in Hilbert spaces *Inverse Problems: Theory and Applications* Giovanni Alessandrini,2003 This volume presents the proceedings of a workshop on Inverse Problems and Applications and a special session on Inverse Boundary Problems and Applications Inverse problems arise in practical situations such as medical imaging exploration geophysics and non destructive evaluation where measurements made in the exterior of a body are used to deduce properties of the hidden interior A large class of inverse problems arise from a physical situation modeled by partial differential equations The inverse problem is to determine some coefficients of the equation given some information about solutions Analysis of such problems is a fertile area for interaction between pure and applied mathematics This interplay is well represented in this volume where several theoretical and

applied aspects of inverse problems are considered The book includes articles on a broad range of inverse problems including the inverse conductivity problem inverse problems for Maxwell's equations time reversal mirrors ultrasound using elastic pressure waves inverse problems arising in the environment inverse scattering for the three body problem and optical tomography Also included are several articles on unique continuation and on the study of propagation of singularities for hyperbolic equations in anisotropic media This volume is suitable for graduate students and research mathematicians interested in inverse problems and applications

Progress in Optics: A Tribute to Emil Wolf, 2020-04-24 Progress in Optics Volume 65 A Tribute to Emil Wolf provides the latest release in a series that presents an overview of the state of the art in optics research In this update readers will find timely chapters on Specular mirror interferometer Maximum Likelihood Estimation in the Context of an Optical Measurement Surface Plasmons The Development of Coherence Theory and much more

Recent Development in Theories & Numerics Yiu-Chung Hon, Masahiro Yamamoto, 2003 Annotation Proceedings from the First International Conference on Inverse Problems Recent Theoretical Development and Numerical Approaches held at the City University of Hong Kong from January 9-12 2002

Introduction to Inverse Problems for Differential Equations Alemdar Hasanov Hasanoğlu, Vladimir G. Romanov, 2021-08-02 This book presents a systematic exposition of the main ideas and methods in treating inverse problems for PDEs arising in basic mathematical models though it makes no claim to being exhaustive Mathematical models of most physical phenomena are governed by initial and boundary value problems for PDEs and inverse problems governed by these equations arise naturally in nearly all branches of science and engineering The book's content especially in the Introduction and Part I is self contained and is intended to also be accessible for beginning graduate students whose mathematical background includes only basic courses in advanced calculus PDEs and functional analysis Further the book can be used as the backbone for a lecture course on inverse and ill posed problems for partial differential equations In turn the second part of the book consists of six nearly independent chapters The choice of these chapters was motivated by the fact that the inverse coefficient and source problems considered here are based on the basic and commonly used mathematical models governed by PDEs These chapters describe not only these inverse problems but also main inversion methods and techniques Since the most distinctive features of any inverse problems related to PDEs are hidden in the properties of the corresponding solutions to direct problems special attention is paid to the investigation of these properties For the second edition the authors have added two new chapters focusing on real world applications of inverse problems arising in wave and vibration phenomena They have also revised the whole text of the first edition

Practical Inverse Problems and Their Prospects Takashi TAKIGUCHI, Takashi OHE, Jin Cheng, Cheng HUA, 2023-09-09 This book comprises select proceedings of the workshop Practical inverse problems and their prospects held online by zoom from Mar 2nd to Mar 4th 2022 supported by Institute of Mathematics for Industry Kyushu University focusing on cutting edge research carried out in the areas of practical inverse problems based on industry academia and interdisciplinary

collaborations Various themes on practical inverse problems covered in this book are medical imaging non destructive and non invasive inspections viscoelastic waves remote sensing infrared light tomography maintenance of infrastructure and so on and mathematical theories in inverse problems are also handled in these proceedings All papers in this book are written by qualified authors in the practical inverse problems area and also the papers are newly announced Readers can get leading edge information on practical inverse problems

Inside Out Gunther Uhlmann,2003-11-10 In this book leading experts in the theoretical and applied aspects of inverse problems offer extended surveys on several important topics

Handbook of Biomedical Optics David A. Boas,Constantinos Pitris,Nimmi Ramanujam,2016-04-19 Biomedical optics holds tremendous promise to deliver effective safe non or minimally invasive diagnostics and targeted customizable therapeutics Handbook of Biomedical Optics provides an in depth treatment of the field including coverage of applications for biomedical research diagnosis and therapy It introduces the theory and fundamental

Numerical Computations: Theory and Algorithms Yaroslav D. Sergeyev,Dmitri E. Kvasov,2020-02-13 The two volume set LNCS 11973 and 11974 constitute revised selected papers from the Third International Conference on Numerical Computations Theory and Algorithms NUMTA 2019 held in Crotone Italy in June 2019 This volume LNCS 11974 consists of 19 full and 32 short papers chosen among regular papers presented at the the Conference including also the paper of the winner Lorenzo Fiaschi Pisa Italy of The Springer Young Researcher Prize for the best NUMTA 2019 presentation made by a young scientist The papers in part II explore the advanced research developments in such interconnected fields as local and global optimization machine learning approximation and differential equations A special focus is given to advanced ideas related to methods and applications using emerging computational paradigms

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