Introduction to the Theory of Inverse Problems

A.L. Bukhgeim

Elements Of The Theory Of Inverse Problems Inverse And Illposed Problems

Michael S. Zhdanov

Elements Of The Theory Of Inverse Problems Inverse And Illposed Problems:

Elements of the Theory of Inverse Problems A. M. Denisov,1999 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 *Ill-Posed Internal Boundary Value Problems for the Biharmonic Equation* Mukarram A. Atakhodzhaev,2014-07-24 Internal boundary value problems deals with the problem of determining the solution of an equation if data are given on two manifolds One manifold is the domain boundary and the other manifold is situated inside the domain This monograph studies three essentially ill posed internal boundary value problems for the biharmonic equation and the Cauchy problem for the abstract biharmonic equation both qualitatively and quantitatively In addition some variants of these problems and the Cauchy problem as well as the m dimensional case are considered The author introduces some new notions such as the notion of complete solvability

Ill-Posed Boundary-Value Problems Serikkali E. Temirbolat,2012-06-04 This monograph extends well known facts to new classes of problems and works out novel approaches to the solution of these problems It is devoted to the questions of ill posed boundary value problems for systems of various types of the first order differential equations with constant coefficients and the methods for their solution Ill-Posed and Non-Classical Problems of Mathematical Physics and Analysis Mikhail M. Lavrent'ev,Sergey I. Kabanikhin,Akbar H. Begmatov,Tukhtamurad D. Dzhuraev,Saburou Saitoh,Masahiro Yamamoto,2014-07-24 These proceedings of the international Conference Ill Posed and Non Classical Problems of Mathematical Physics and Analysis held at the Samarkand State University Uzbekistan in September 2000 bring together fundamental research articles in the major areas of the numerated fields of analysis and mathematical physics The book covers the following topics theory of ill posed problems inverse problems for differential equations boundary value problems for equations of mixed type integral geometry mathematical modelling and numerical methods in natural sciences

Well-posed, Ill-posed, and Intermediate Problems with Applications Petrov Yuri P.,Valery S. Sizikov,2011-12-22 This book deals with one of the key problems in applied mathematics namely the investigation into and providing for solution stability in solving equations with due allowance for inaccuracies in set initial data parameters and coefficients of a mathematical model for an object under study instrumental function initial conditions etc and also with allowance for miscalculations including roundoff errors Until recently all problems in mathematics physics and engineering were divided into two classes well posed problems and ill posed problems The authors introduce a third class of problems intermediate ones which are problems that change their property of being well or ill posed on equivalent transformations of governing equations and also problems that display the property of being either well or ill posed depending on the type of the functional space used The book is divided into two parts Part one deals with general properties of all three classes of mathematical physical and

engineering problems with approaches to solve them Part two deals with several stable models for solving inverse ill posed problems illustrated with numerical examples   *Computer Modelling in Tomography and Ill-Posed Problems* Mikhail M. Lavrent'ev,Sergei M. Zerkal,Oleg E. Trofimov,2014-07-24 Comparatively weakly researched untraditional tomography problems are solved because of new achievements in calculation mathematics and the theory of ill posed problems the regularization process of solving ill posed problems and the increase of stability Experiments show possibilities and applicability of algorithms of processing tomography data This monograph is devoted to considering these problems in connection with series of ill posed problems in tomography settings arising from practice The book includes chapters to the following themes Mathematical basis of the method of computerized tomography Cone beam tomography reconstruction Inverse kinematic problem in the tomographic setting   **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   **An Introduction to Identification Problems via Functional Analysis** Alfredo Lorenzi,2014-07-24 this monograph is based on two courses in computational mathematics and operative research which were given by the author in recent years to doctorate and PhD students The text focuses on an aspect of the theory of inverse problems which is usually referred to as identification of parameters numbers vectors matrices functions appearing in differential or integrodifferential equations The parameters of such equations are either quite unknown or partially unknown however knowledge about these is usually essential as they describe the intrinsic properties of the material or substance under consideration   **Uniqueness Problems for Degenerating Equations and Nonclassical Problems** S. P. Shishatskii,A. Asanov,E. R. Atamanov,2014-10-15 No detailed description available for Uniqueness Problems for Degenerating Equations and Nonclassical Problems   **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   <u>Fast Solution of Discretized Optimization Problems</u> Karl-Heinz Hoffmann,Ronald W. Hoppe,Volker Schulz,2012-12-06 Differential equations partial as well as ordinary are one of the main tools for the modeling of real world application problems Pursuing the ultimate aim of influencing these systems in a desired way one is confronted with the task of optimizing discretized models This volume contains selected papers presented at the International Work shop on Fast Solution of Discretized Optimization Problems which took place at the Weierstrass Institute for Applied Analysis and Stochastics in Berlin from May 08 until May 12 2000 The conference was attended by 59 scientists from 10 countries The scientific program consisted of 8 invited lectures presented by H G Bock IWR Heidelberg M Heinkenschloss Rice University Houston K Kunisch University of Graz U Langer University Linz B Mohammadi University of Montpellier J Petersson University of Linkoping E Sachs University of Trier F Troltzsch Technical University of Chemnitz and 28 contributed talks The aim of this workshop was to foster the exchange of ideas between the still comparatively separated disciplines of nonlinear optimiza tion on the one side and numerical methods for differential equations on the other side This is necessary for the successful solution of various current optimization problems in practical applications shape optimization topology optimization pro cess optimization Therefore the organizing committee as well as the speakers have come from both these communities   **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 **Regularization Algorithms for Ill-Posed Problems** Anatoly B. Bakushinsky,Mikhail M. Kokurin,Mikhail Yu. Kokurin,2018-02-05 This specialized and authoritative book contains an overview of modern approaches to constructing approximations to solutions of ill posed operator equations both linear and nonlinear These approximation schemes form a basis for implementable numerical algorithms for the stable solution of operator equations arising in contemporary mathematical modeling and in particular when solving inverse problems of mathematical physics The book presents in detail stable solution methods for ill posed problems using the methodology of iterative regularization of classical iterative schemes and the techniques of finite dimensional and finite difference approximations of the problems under study Special attention is paid to ill posed Cauchy problems for linear operator differential equations and to ill posed variational inequalities and optimization problems The readers are expected to have basic knowledge in functional analysis and differential equations The book will be of interest to applied mathematicians and specialists in mathematical modeling and inverse problems and also to advanced students in these fields Contents Introduction Regularization Methods For Linear Equations Finite Difference Methods Iterative Regularization Methods Finite Dimensional Iterative Processes Variational Inequalities and Optimization Problems **Computational Methods for Applied Inverse Problems** Yanfei Wang,Anatoly G. Yagola,Changchun Yang,2012-10-30 Nowadays inverse problems and applications in science and engineering represent an extremely active research field The subjects are related to mathematics physics geophysics geochemistry oceanography geography and remote sensing astronomy biomedicine and other areas of applications This monograph reports recent advances of inversion theory and recent developments with practical applications in frontiers of sciences especially inverse design and novel computational methods for inverse problems The practical applications include inverse scattering chemistry molecular spectra data processing quantitative remote sensing inversion seismic imaging oceanography and astronomical imaging The book serves as a reference book and readers who do research in applied mathematics engineering geophysics biomedicine image processing remote sensing and environmental science will benefit from the contents since the book incorporates a background of using statistical and non statistical methods e g regularization and optimization techniques for solving practical inverse problems **Progress In Analysis, Proceedings Of The 3rd Isaac Congress (In 2 Volumes)** Heinrich G W Begehr,Robert Pertsch Gilbert,Man-wah Wong,2003-08-04 The biannual ISAAC congresses provide information about recent progress in the whole area of analysis including applications and computation This book constitutes the proceedings of the third meeting *Characterisation of Bio-Particles from Light Scattering* Valeri P. Maltsev,Konstantin A. Semyanov,2013-03-01 The primary aim of this monograph is to provide a systematic state of the art summary of the light

scattering of bioparticles including a brief consideration of analytical and numerical methods for computing electromagnetic scattering by single particles a detailed discussion of the instrumental approach used in measurement of light scattering an analysis of the methods used in solution of the inverse light scattering problem and an introduction of the results dealing with practical analysis of biosamples Considering the widespread need for this information in optics remote sensing engineering medicine and biology the book is useful to many graduate students scientists and engineers working on various aspects of electromagnetic scattering and its 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

Brain Source Localization Using EEG Signal Analysis Munsif Ali Jatoi,Nidal Kamel,2017-12-14 Of the research areas devoted to biomedical sciences the study of the brain remains a field that continually attracts interest due to the vast range of people afflicted with debilitating brain disorders and those interested in ameliorating its effects To discover the roots of maladies and grasp the dynamics of brain functions researchers and practitioners often turn to a process known as brain source localization which assists in determining the source of electromagnetic signals from the brain Aiming to promote both treatments and understanding of brain ailments ranging from epilepsy and depression to schizophrenia and Parkinson s disease the authors of this book provide a comprehensive account of current developments in the use of neuroimaging techniques for brain analysis Their book addresses a wide array of topics including EEG forward and inverse problems the application of classical MNE LORETA Bayesian based MSP and its modified version M MSP Within the ten chapters that comprise this book clinicians researchers and field experts concerned with the state of brain source localization will find a store of information that can assist them in the quest to enhance the quality of life for people living with brain disorders

Encyclopaedia of Mathematics Michiel Hazewinkel,2013-12-01 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathe matics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivi sion has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science en gineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of

problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques

Advanced Methods of Joint Inversion and Fusion of Multiphysics Data Michael S. Zhdanov,2023-12-28 Different physical or geophysical methods provide information about distinctive physical properties of the objects e g rock formations and mineralization In many cases this information is mutually complementary which makes it natural for consideration in a joint inversion of the multiphysics data Inversion of the observed data for a particular experiment is subject to considerable uncertainty and ambiguity One productive approach to reducing uncertainty is to invert several types of data jointly Nonuniqueness can also be reduced by incorporating additional information derived from available a priori knowledge about the target to reduce the search space for the solution This additional information can be incorporated in the form of a joint inversion of multiphysics data Generally established joint inversion methods however are inadequate for incorporating typical physical or geological complexity For example analytic empirical or statistical correlations between different physical properties may exist for only part of the model and their specific form may be unknown Features or structures that are present in the data of one physical method may not be present in the data generated by another physical method or may not be equally resolvable This book presents and illustrates several advanced new approaches to joint inversion and data fusion which do not require a priori knowledge of specific empirical or statistical relationships between the different model parameters or their attributes These approaches include the following novel methods among others 1 the Gramian method which enforces the correlation between different parameters 2 joint total variation functional or joint focusing stabilizers e g minimum support and minimum gradient support constraints 3 data fusion employing a joint minimum entropy stabilizer which yields the simplest multiphysics solution that fits the multi modal data In addition the book describes the principles of using artificial intelligence AI in solving multiphysics inverse problems The book also presents in detail both the mathematical principles of these advanced approaches to joint inversion of multiphysics data and successful case histories of regional scale and deposit scale geophysical studies to illustrate their indicated advantages

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