A. S. Barashkov

SMALL PARAMETER METHOD IN MULTIDIMENSIONAL INVERSE PROBLEMS

Small Parameter Method In Multidimensional Inverse Problems Inverse And Iiiposed Problems Series

A. I. Kozhanov

Small Parameter Method In Multidimensional Inverse Problems Inverse And Iiiposed Problems Series:

Small Parameter Method in Multidimensional Inverse Problems A. S. Barashkov,1998-01-01 Inverse problem theory is one of the most important directions of modern mathematics In this monograph for the most part inverse coefficient problems are explored for example Helmholtz equations The coefficient of these equations need to be recovered by certain known information on the solutions of these equations In this book the basic method for studying multidimensional inverse problems is the small parameter method the asymptotic method Such methods are widely used for investigation of direct problems **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 **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 **Inverse Problems for Partial Differential Equations** Yurii Ya. Belov,2012-02-14 This monograph is devoted to identification problems of coefficients in equations of mathematical physics It invesitgates the existence and uniqueness of the solutions for identification coefficient problems in parabolic and hyperbolic equations and equation systems of composite type The problems are studied with the Cauchy data and equations in which the Fourier transform with respect to the chosen variable is supposed to occur Differential properties of the solutions for the original direct problems and their behavior under great values of time are studied on the basis of solution properties for direct problems The identification problems with one or two unknown coefficients are also investigated For initial boundary value conditions linear and nonlinear parabolic equations are studied **Method of Spectral Mappings in the Inverse Problem Theory** Vacheslav A. Yurko,2013-10-10 Inverse problems of spectral analysis consist in recovering operators from their spectral characteristics Such problems often appear in mathematics mechanics physics electronics geophysics meteorology and other branches of natural science This monograph is devoted to inverse problems of spectral analysis for ordinary differential equations Its aim ist to present the main results on inverse spectral problems using the so called method of spectral mappings which is one of the main tools in inverse spectral theory The book consists of three chapters In Chapter 1 the method of spectral mappings is presented in the simplest version for the Sturm Liouville operator In Chapter 2 the inverse problem of recovering higher order differential operators of the form on the half line and on a finite interval is considered In

Chapter 3 inverse spectral problems for differential operators with nonlinear dependence on the spectral parameter are studied   **Inverse Problems of Vibrational Spectroscopy** A. G. Yagola,I. V. Kochikov,G. M. Kuramshina,2014-10-16 No detailed description available for Inverse Problems of Vibrational Spectroscopy   <u>Counterexamples in Optimal Control Theory</u> Semen Ya. Serovaiskii,2011-12-01 This monograph deals with cases where optimal control either does not exist or is not unique cases where optimality conditions are insufficient of degenerate or where extremum problems in the sense of Tikhonov and Hadamard are ill posed and other situations A formal application of classical optimisation methods in such cases either leads to wrong results or has no effect The detailed analysis of these examples should provide a better understanding of the modern theory of optimal control and the practical difficulties of solving extremum problems

   Inverse Problems of Electromagnetic Geophysical Fields P. S. Martyshko,2014-07-24 No detailed description available for Inverse Problems of Electromagnetic Geophysical Fields   <u>Elements of the Theory of Inverse Problems</u> A. M. Denisov,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   <u>Dynamical Inverse Problems of Distributed Systems</u> Vyacheslav I. Maksimov,2014-07-24 This monograph deals with problems of dynamical reconstruction of unknown variable characteristics distributed or boundary disturbances coefficients of operator etc for various classes of systems with distributed parameters parabolic and hyperbolic equations evolutionary variational inequalities etc   **Carleman Estimates for Coefficient Inverse Problems and Numerical Applications** Michael V. Klibanov,Alexander A. Timonov,2012-04-17 In this monograph the main subject of the author s considerations is coefficient inverse problems Arising in many areas of natural sciences and technology such problems consist of determining the variable coefficients of a certain differential operator defined in a domain from boundary measurements of a solution or its functionals Although the authors pay strong attention to the rigorous justification of known results they place the primary emphasis on new concepts and developments   **Theory of Linear Ill-Posed Problems and its Applications** Valentin K. Ivanov,Vladimir V. Vasin,Vitalii P. Tanana,2013-02-18 This monograph is a revised and extended version of the Russian edition from 1978 It includes the general theory of linear ill posed problems concerning e g the structure of sets of uniform regularization the theory of error estimation and the optimality method As a distinguishing feature the book considers ill posed problems not only in Hilbert but also in Banach spaces It is natural that since the appearance of the first edition considerable progress has been made in the theory of inverse and ill posed problems as wall as in ist applications To reflect these accomplishments the authors included additional material e g comments to each chapter and a list of monographs with annotations   **Inverse Problems of Mathematical Physics** Mikhail M. Lavrent'ev,Alexander V. Avdeev,Viatcheslav I. Priimenko,2012-05-07 This monograph deals with the

theory of inverse problems of mathematical physics and applications of such problems Besides it considers applications and numerical methods of solving the problems under study Descriptions of particular numerical experiments are also included

Inverse Problems for Kinetic and Other Evolution Equations Yu. E. Anikonov,2014-07-24 This monograph deals with methods of studying multidimensional inverse problems for kinetic and other evolution equations in particular transfer equations The methods used are applied to concrete inverse problems especially multidimensional inverse problems applicable in linear and nonlinear statements A significant part of the book contains formulas and relations for solving inverse problems including formulas for the solution and coefficients of kinetic equations differential difference equations nonlinear evolution equations and second order equations **Operator Theory and Ill-Posed Problems** Mikhail M. Lavrent'ev,Lev Ja. Savel'ev,2011-12-22 This book consists of three major parts The first two parts deal with general mathematical concepts and certain areas of operator theory The third part is devoted to ill posed problems It can be read independently of the first two parts and presents a good example of applying the methods of calculus and functional analysis The first part Basic Concepts briefly introduces the language of set theory and concepts of abstract linear and multilinear algebra Also introduced are the language of topology and fundamental concepts of calculus the limit the differential and the integral A special section is devoted to analysis on manifolds The second part Operators describes the most important function spaces and operator classes for both linear and nonlinear operators Different kinds of generalized functions and their transformations are considered Elements of the theory of linear operators are presented Spectral theory is given a special focus The third part Ill Posed Problems is devoted to problems of mathematical physics integral and operator equations evolution equations and problems of integral geometry It also deals with problems of analytic continuation Detailed coverage of the subjects and numerous examples and exercises make it possible to use the book as a textbook on some areas of calculus and functional analysis It can also be used as a reference textbook because of the extensive scope and detailed references with comments Inverse Problems for Kinetic and Other Evolution Equations I︠U︡riĭ Evgen'evich Anikonov,IUri i Evgen'evich Anikonov,2001 This monograph in the Inverse and Ill Posed Problems Series deals with methods of studying multidimensional inverse problems for kinetic and other evolution equations in particular transfer equations The methods used are applied to concrete inverse problems especially multidimensional inverse problems applicable in linear and nonlinear statements A significant part of the book contains formulas and relations for solving inverse problems including formulas for the solution and coefficients of kinetic equations differential difference equations nonlinear evolution equations and second order equations This monograph will be of value and interest to mathematicians engineers and other specialists dealing with inverse and ill posed problems **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 *Coefficient Inverse Problems for Parabolic Type Equations and Their Application* P. G. Danilaev,2014-07-24 As a rule many practical problems are studied in a situation when the input data are incomplete For example this is the case for a parabolic partial differential equation describing the non stationary physical process of heat and mass transfer if it contains the unknown thermal conductivity coefficient Such situations arising in physical problems motivated the appearance of the present work In this monograph the author considers numerical solutions of the quasi inversion problems to which the solution of the original coefficient inverse problems are reduced Underground fluid dynamics is taken as a field of practical use of coefficient inverse problems The significance of these problems for this application domain consists in the possibility to determine the physical fields of parameters that characterize the filtration properties of porous media oil strata This provides the possibility of predicting the conditions of oil field development and the effects of the exploitation The research carried out by the author showed that the quasi inversion method can be applied also for solution of interior coefficient inverse problems by reducing them to the problem of continuation of a solution to a parabolic equation This reduction is based on the results of the proofs of the uniqueness theorems for solutions of the corresponding coefficient inverse problems *Inverse Problems of Wave Processes* A. S. Blagoveshchenskii,2014-07-24 This monograph covers dynamical inverse problems that is problems whose data are the values of wave fields It deals with the problem of determination of one or more coefficients of a hyperbolic equation or a system of hyperbolic equations The desired coefficients are functions of point Most attention is given to the case where the required functions depend only on one coordinate The first chapter of the book deals mainly with methods of solution of one dimensional inverse problems The second chapter focuses on scalar inverse problems of wave propagation in a layered medium In the final chapter inverse problems for elasticity equations in stratified media and acoustic equations for moving media are given **Composite Type Equations and Inverse Problems** A. I. Kozhanov,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

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