A.B. Bakushinsky and
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Iterative Methods for Approximate Solution of Inverse Problems

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Iterative Methods for Approximate Solution of Inverse Problems A.B. Bakushinsky,M.Yu. Kokurin,2007-09-28 This volume presents a unified approach to constructing iterative methods for solving irregular operator equations and provides rigorous theoretical analysis for several classes of these methods The analysis of methods includes convergence theorems as well as necessary and sufficient conditions for their convergence at a given rate The principal groups of methods studied in the book are iterative processes based on the technique of universal linear approximations stable gradient type processes and methods of stable continuous approximations Compared to existing monographs and textbooks on ill posed problems the main distinguishing feature of the presented approach is that it doesn t require any structural conditions on equations under consideration except for standard smoothness conditions This allows to obtain in a uniform style stable iterative methods applicable to wide classes of nonlinear inverse problems Practical efficiency of suggested algorithms is illustrated in application to inverse problems of potential theory and acoustic scattering The volume can be read by anyone with a basic knowledge of functional analysis The book will be of interest to applied mathematicians and specialists in mathematical modeling and inverse problems **Numerical Methods for Solving Inverse Problems of Mathematical Physics** A. A. Samarskii,Petr N. Vabishchevich,2008-08-27 The main classes of inverse problems for equations of mathematical physics and their numerical solution methods are considered in this book which is intended for graduate students and experts in applied mathematics computational mathematics and mathematical modelling Inverse Problems and Carleman Estimates Michael V. Klibanov,Jingzhi Li,2021-09-07 This book summarizes the main analytical and numerical results of Carleman estimates In the analytical part Carleman estimates for three main types of Partial Differential Equations PDEs are derived In the numerical part first numerical methods are proposed to solve ill posed Cauchy problems for both linear and quasilinear PDEs Next various versions of the convexification method are developed for a number of Coefficient Inverse Problems

Computational Methods for Inverse Problems in Imaging Marco Donatelli,Stefano Serra-Capizzano,2019-11-26 This book presents recent mathematical methods in the area of inverse problems in imaging with a particular focus on the computational aspects and applications The formulation of inverse problems in imaging requires accurate mathematical modeling in order to preserve the significant features of the image The book describes computational methods to efficiently address these problems based on new optimization algorithms for smooth and nonsmooth convex minimization on the use of structured numerical linear algebra and on multilevel techniques It also discusses various current and challenging applications in fields such as astronomy microscopy and biomedical imaging The book is intended for researchers and advanced graduate students interested in inverse problems and imaging *Applied Inverse Problems* Larisa Beilina,2013-08-15 This proceedings volume is based on papers presented at the First Annual Workshop on Inverse Problems

which was held in June 2011 at the Department of Mathematics Chalmers University of Technology The purpose of the workshop was to present new analytical developments and numerical methods for solutions of inverse problems State of the art and future challenges in solving inverse problems for a broad range of applications was also discussed The contributions in this volume are reflective of these themes and will be beneficial to researchers in this area **Numerical Methods for Inverse Problems** Michel Kern,2016-06-07 This book studies methods to concretely address inverse problems An inverse problem arises when the causes that produced a given effect must be determined or when one seeks to indirectly estimate the parameters of a physical system The author uses practical examples to illustrate inverse problems in physical sciences He presents the techniques and specific methods chosen to solve inverse problems in a general domain of application choosing to focus on a small number of methods that can be used in most applications This book is aimed at readers with a mathematical and scientific computing background Despite this it is a book with a practical perspective The methods described are applicable have been applied and are often illustrated by numerical examples   Computational Methods for Inverse Problems and Applications Amine Laghrib,Mourad Nachaoui,Lekbir Afraites,2025-07-24 This book highlights recent trends in inverse problems and their integration with computer science a field rapidly evolving yet underexplored mathematically ICMDS 2024 aims to unite scientists to explore the latest in mathematics and its applications across various scientific disciplines Key topics include inverse problems partial differential equations mathematical control numerical analysis and computer science Our goal is to provide substantial mathematical insights and practical applications to bridge this gap With its growing significance in media and industry this event promises to attract a diverse audience and foster collaboration across scientific domains The main contribution of this book is to give some sufficient mathematical content with expressive results and accurate applications As a growing field it is gaining a lot of attention both in media as well as in the industry world which will attract the interest of readers from different scientist discipline   **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 *Inverse Problems, Regularization Methods and Related Topics* Sergei V. Pereverzyev,R. Radha,S. Sivananthan,2025-03-31 This book features a thoughtfully curated collection of research contributions spanning regularization theory integral equations learning theory and matrix and operator theory These contributions were presented in honor of Prof M Thamban Nair on his 65th birthday during the International Conference on Analysis Inverse Problems and Applications which took place at the IIT Madras in Chennai India from July 18 21 2022 The book is a valuable resource for graduate students engineers scientists and researchers looking to advance their work in the development of innovative regularization algorithms It comprises 14 chapters contributed by esteemed experts and emerging researchers **Nonlinear and Inverse Problems in Electromagnetics** L. Beilina,Yu. G. Smirnov,2018-07-19 This volume provides academic discussion on the theory and practice of mathematical analysis of nonlinear and inverse problems in electromagnetics and their applications From mathematical problem statement to numerical results the featured articles provide a concise overview of comprehensive approaches to the solution of problems Articles highlight the most recent research concerning reliable theoretical approaches and numerical techniques and cover a wide range of applications including acoustics electromagnetics optics medical imaging and geophysics The nonlinear and ill posed nature of inverse problems and the challenges they present when developing new numerical methods are explained and numerical verification of proposed new methods on simulated and experimental data is provided Based on the special session of the same name at the 2017 Progress in Electromagnetics Research Symposium this book offers a platform for interaction between theoretical and practical researchers and between senior and incoming members in the field Fault Diagnosis Inverse Problems: Solution with Metaheuristics Lídice Camps Echevarría,Orestes Llanes Santiago,Haroldo Fraga de Campos Velho,Antônio José da Silva Neto,2018-05-28 This book presents a methodology based on inverse problems for use in solutions for fault diagnosis in control systems combining tools from mathematics physics computational and mathematical modeling optimization and computational intelligence This methodology known as fault diagnosis inverse

problem methodology or FD IPM unifies the results of several years of work of the authors in the fields of fault detection and isolation FDI inverse problems and optimization The book clearly and systematically presents the main ideas concepts and results obtained in recent years By formulating fault diagnosis as an inverse problem and by solving it using metaheuristics the authors offer researchers and students a fresh interdisciplinary perspective for problem solving in these fields Graduate courses in engineering applied mathematics and computing also benefit from this work   Handbook of Mathematical Methods in Imaging Otmar Scherzer,2010-11-23 The Handbook of Mathematical Methods in Imaging provides a comprehensive treatment of the mathematical techniques used in imaging science The material is grouped into two central themes namely Inverse Problems Algorithmic Reconstruction and Signal and Image Processing Each section within the themes covers applications modeling mathematics numerical methods using a case example and open questions Written by experts in the area the presentation is mathematically rigorous The entries are cross referenced for easy navigation through connected topics Available in both print and electronic forms the handbook is enhanced by more than 150 illustrations and an extended bibliography It will benefit students scientists and researchers in applied mathematics Engineers and computer scientists working in imaging will also find this handbook useful   **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   *KWIC Index for Numerical Algebra* Alston Scott Householder,1972   System Modeling and Optimization Dietmar Hömberg,Fredi Tröltzsch,2013-02-20 This book is a collection of thoroughly refereed papers presented at the 25th IFIP TC 7 Conference on System Modeling and Optimization held in Dresden Germany in September 2011 The 55 revised papers were carefully selected from numerous submissions They are organized in the following topical sections control of distributed parameter systems stochastic optimization and control stabilization feedback and model predictive control flow control shape and structural optimization

and applications and control of lumped parameter systems   Heat Conduction Vyacheslav Vikhrenko,2011-11-30 The content of this book covers several up to date approaches in the heat conduction theory such as inverse heat conduction problems non linear and non classic heat conduction equations coupled thermal and electromagnetic or mechanical effects and numerical methods for solving heat conduction equations as well The book is comprised of 14 chapters divided into four sections In the first section inverse heat conduction problems are discuss The first two chapters of the second section are devoted to construction of analytical solutions of nonlinear heat conduction problems In the last two chapters of this section wavelike solutions are attained The third section is devoted to combined effects of heat conduction and electromagnetic interactions in plasmas or in pyroelectric material elastic deformations and hydrodynamics Two chapters in the last section are dedicated to numerical methods for solving heat conduction problems   **Computational Methods in Nonlinear Analysis** Ioannis K. Argyros,Saïd Hilout,2013 The field of computational sciences has seen a considerable development in mathematics engineering sciences and economic equilibrium theory Researchers in this field are faced with the problem of solving a variety of equations or variational inequalities We note that in computational sciences the practice of numerical analysis for finding such solutions is essentially connected to variants of Newton s method The efficient computational methods for finding the solutions of fixed point problems nonlinear equations and variational inclusions are the first goal of the present book The second goal is the applications of these methods in nonlinear problems and the connection with fixed point theory This book is intended for researchers in computational sciences and as a reference book for an advanced computational methods in nonlinear analysis We collect the recent results on the convergence analysis of numerical algorithms in both finite dimensional and infinite dimensional spaces and present several applications and connections with fixed point theory The book contains abundant and updated bibliography and provides comparison between various investigations made in recent years in the field of computational nonlinear analysis   *Mathematical and Computational Modeling* Roderick Melnik,2015-05-18 Mathematical and Computational Modeling Illustrates the application of mathematical and computational modeling in a variety of disciplines With an emphasis on the interdisciplinary nature of mathematical and computational modeling Mathematical and Computational Modeling With Applications in the Natural and Social Sciences Engineering and the Arts features chapters written by well known international experts in these fields and presents readers with a host of state of theart achievements in the development of mathematical modeling and computational experiment methodology The book is a valuable guide to the methods ideas and tools of applied and computational mathematics as they apply to other disciplines such as the natural and social sciences engineering and technology The book also features Rigorous mathematical procedures and applications as the driving force behind mathematical innovation and discovery Numerous examples from a wide range of disciplines to emphasize the multidisciplinary application and universality of applied mathematics and mathematical modeling Original results on both fundamental theoretical and applied developments in

diverse areas of human knowledge Discussions that promote interdisciplinary interactions between mathematicians scientists and engineers Mathematical and Computational Modeling With Applications in the Natural and Social Sciences Engineering and the Arts is an ideal resource for professionals in various areas of mathematical and statistical sciences modeling and simulation physics computer science engineering biology and chemistry and industrial and computational engineering The book also serves as an excellent textbook for graduate courses in mathematical modeling applied mathematics numerical methods operations research and optimization   *Finite Difference Methods. Theory and Applications* Ivan Dimov,István Faragó,Lubin Vulkov,2019-01-28 This book constitutes the refereed conference proceedings of the 7th International Conference on Finite Difference Methods FDM 2018 held in Lozenetz Bulgaria in June 2018 The 69 revised full papers presented together with 11 invited papers were carefully reviewed and selected from 94 submissions They deal with many modern and new numerical techniques like splitting techniques Green s function method multigrid methods and immersed interface method

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