V. A. Morozov

Methods for Solving Incorrectly Posed Problems

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Methods for Solving Incorrectly Posed Problems V.A. Morozov,2011-10-23 Some problems of mathematical physics and analysis can be formulated as the problem of solving the equation f F 1 Au f where A DA C U F is an operator with a non empty domain of definition D in a metric space U with range in a metric space F The metrics A on U and F will be denoted by P and P respectively Relative u F to the twin spaces U and F J Hadamard P 06 gave the following defini tion of correctness the problem 1 is said to be well posed correct properly posed if the following conditions are satisfied 1 The range of the value Q of the operator A coincides with A F sol vabi li ty condition 2 The equality AU AU for any u u DA implies the I 2 l 2 equality u u uniqueness condition l 2 3 The inverse operator A I is continuous on F stability condition Any reasonable mathematical formulation of a physical problem requires that conditions 1 3 be satisfied That is why Hadamard postulated that any ill posed improperly posed problem that is to say one which does not satisfy conditions 1 3 is non physical Hadamard also gave the now classical example of an ill posed problem namely the Cauchy problem for the Laplace equation **Methods for Solving Incorrectly Posed Problems** V.A. Morozov,1984-11-20 Some problems of mathematical physics and analysis can be formulated as the problem of solving the equation f F 1 Au f where A DA C U F is an operator with a non empty domain of definition D in a metric space U with range in a metric space F The metrics A on U and F will be denoted by P and P respectively Relative u F to the twin spaces U and F J Hadamard P 06 gave the following defini tion of correctness the problem 1 is said to be well posed correct properly posed if the following conditions are satisfied 1 The range of the value Q of the operator A coincides with A F sol vabi li ty condition 2 The equality AU AU for any u u DA implies the I 2 l 2 equality u u uniqueness condition l 2 3 The inverse operator A I is continuous on F stability condition Any reasonable mathematical formulation of a physical problem requires that conditions 1 3 be satisfied That is why Hadamard postulated that any ill posed improperly posed problem that is to say one which does not satisfy conditions 1 3 is non physical Hadamard also gave the now classical example of an ill posed problem namely the Cauchy problem for the Laplace equation **Methods for Solving Incorrectly Posed Problems** V.A. Morozov,2012-12-06 Some problems of mathematical physics and analysis can be formulated as the problem of solving the equation f F 1 Au f where A DA C U F is an operator with a non empty domain of definition D in a metric space U with range in a metric space F The metrics A on U and F will be denoted by P and P respectively Relative u F to the twin spaces U and F J Hadamard P 06 gave the following defini tion of correctness the problem 1 is said to be well posed correct properly posed if the following conditions are satisfied 1 The range of the value Q of the operator A coincides with A F sol vabi li ty condition 2 The equality AU AU for any u u DA implies the I 2 l 2 equality u u uniqueness condition l 2 3 The inverse operator A I is continuous on F stability condition Any reasonable mathematical formulation of a physical problem requires that conditions 1 3 be satisfied That is why Hadamard postulated that any ill posed improperly posed problem that is to say one which does not satisfy conditions 1 3 is non physical Hadamard also gave

the now classical example of an ill posed problem namely the Cauchy problem for the Laplace equation   Methods for Solving Incorrectly Posed Problems Vladimir Alekseevich Morozov,1984 Some problems of mathematical physics and analysis can be formulated as the problem of solving the equation f F 1 Au f where A DA C U F is an operator with a non empty domain of definition D in a metric space U with range in a metric space F The metrics A on U and F will be denoted by P and P respectively Relative u F to the twin spaces U and F J Hadamard P 06 gave the following defini tion of correctness the problem 1 is said to be well posed correct properly posed if the following conditions are satisfied 1 The range of the value Q of the operator A coincides with A F sol vabi li ty condition 2 The equality AU AU for any u u DA implies the I 2 l 2 equality u u uniqueness condition l 2 3 The inverse operator A I is continuous on F stability condition Any reasonable mathematical formulation of a physical problem requires that conditions 1 3 be satisfied That is why Hadamard postulated that any ill posed improperly posed problem that is to say one which does not satisfy conditions 1 3 is non physical Hadamard also gave the now classical example of an ill posed problem namely the Cauchy problem for the Laplace equation   Encyclopaedia of Mathematics Michiel Hazewinkel,1989-08-31 V 1 A B v 2 C v 3 D Feynman Measure v 4 Fibonaccimethod H v 5 Lituus v 6 Lobachevskii Criterion for Convergence Optical Sigman Algebra v 7 Orbi t Rayleigh Equation v 8 Reaction Diffusion Equation Stirling Interpolation Fo rmula v 9 Stochastic Approximation Zygmund Class of Functions v 10 Subject Index Author Index   **Surveys on Solution Methods for Inverse Problems** David Colton,Heinz W. Engl,Alfred K. Louis,Joyce McLaughlin,William Rundell,2012-12-06 Inverse problems are concerned with determining causes for observed or desired effects Problems of this type appear in many application fields both in science and in engineering The mathematical modelling of inverse problems usually leads to ill posed problems i e problems where solutions need not exist need not be unique or may depend discontinuously on the data For this reason numerical methods for solving inverse problems are especially difficult special methods have to be developed which are known under the term regularization methods This volume contains twelve survey papers about solution methods for inverse and ill posed problems and about their application to specific types of inverse problems e g in scattering theory in tomography and medical applications in geophysics and in image processing The papers have been written by leading experts in the field and provide an up to date account of solution methods for inverse problems   Fast Solution of Discretized Optimization Problems 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 **Regularized Image Reconstruction in Parallel MRI with MATLAB** Joseph Suresh Paul,Raji Susan Mathew,2019-11-05 Regularization becomes an integral part of the reconstruction process in accelerated parallel magnetic resonance imaging pMRI due to the need for utilizing the most discriminative information in the form of parsimonious models to generate high quality images with reduced noise and artifacts Apart from providing a detailed overview and implementation details of various pMRI reconstruction methods Regularized image reconstruction in parallel MRI with MATLAB examples interprets regularized image reconstruction in pMRI as a means to effectively control the balance between two specific types of error signals to either improve the accuracy in estimation of missing samples or speed up the estimation process The first type corresponds to the modeling error between acquired and their estimated values The second type arises due to the perturbation of k space values in autocalibration methods or sparse approximation in the compressed sensing based reconstruction model Features Provides details for optimizing regularization parameters in each type of reconstruction Presents comparison of regularization approaches for each type of pMRI reconstruction Includes discussion of case studies using clinically acquired data MATLAB codes are provided for each reconstruction type Contains method wise description of adapting regularization to optimize speed and accuracy This book serves as a reference material for researchers and students involved in development of pMRI reconstruction methods Industry practitioners concerned with how to apply regularization in pMRI reconstruction will find this book most useful *Material-Integrated Intelligent Systems* Stefan Bosse,Dirk Lehmhus,Walter Lang,Matthias Busse,2018-03-12 Combining different perspectives from materials science engineering and computer science this reference provides a unified view of the various aspects necessary for the successful realization of intelligent systems The editors and authors are from academia and research institutions with close ties to industry and are thus able to offer first hand information here They adopt a unique three tiered approach such that readers can gain basic intermediate and advanced topical knowledge The technology section of the book is divided into chapters covering the basics of sensor integration in materials the challenges associated with this approach data processing evaluation and validation as well as methods for achieving an autonomous energy supply The applications part then goes on to showcase typical scenarios where material integrated intelligent systems are already in use such as for structural health monitoring and smart textiles *Inverse Problems and Inverse Scattering of Plane Waves* D.N. Roy,L. S.

Couchman,2001-10-04 The purpose of this text is to present the theory and mathematics of inverse scattering in a simple way to the many researchers and professionals who use it in their everyday research While applications range across a broad spectrum of disciplines examples in this text will focus primarily but not exclusively on acoustics The text will be especially valuable for those applied workers who would like to delve more deeply into the fundamentally mathematical character of the subject matter Practitioners in this field comprise applied physicists engineers and technologists whereas the theory is almost entirely in the domain of abstract mathematics This gulf between the two if bridged can only lead to improvement in the level of scholarship in this highly important discipline This is the book s primary focus *Neural Engineering* Bin He,2013-01-09 Neural Engineering 2nd Edition contains reviews and discussions of contemporary and relevant topics by leading investigators in the field It is intended to serve as a textbook at the graduate and advanced undergraduate level in a bioengineering curriculum This principles and applications approach to neural engineering is essential reading for all academics biomedical engineers neuroscientists neurophysiologists and industry professionals wishing to take advantage of the latest and greatest in this emerging field *Estimation Techniques for Distributed Parameter Systems* H.T. Banks,K. Kunisch,2012-12-06 The research detailed in this monograph was originally motivated by our interest in control problems involving partial and delay differential equations Our attempts to apply control theory techniques to such prob lems in several areas of science convinced us that in the need for better and more detailed models of distributed continuum processes in biology and mechanics lay a rich interesting and challenging class of fundamen tal questions These questions which involve science and mathematics are typical of those arising in inverse or parameter estimation problems Our efforts on inverse problems for distributed parameter systems which are infinite dimensional in the most common realizations began about seven years ago at a time when rapid advances in computing capabilities and availability held promise for significant progress in the development of a practically useful as well as theoretically sound methodology for such problems Much of the research reported in our presentation was not begun when we outlined the plans for this monograph some years ago By publishing this monograph now when only a part of the originally intended topics are covered see Chapter VII in this respect we hope to stimulate the research and interest of others in an area of scientific en deavor which has exceeded even our optimistic expectations with respect to excitement opportunity and stimulation The computer revolution alluded to above and the development of new codes allow one to solve rather routinely certain estimation problems that would have been out of the question ten years ago *Parallel Operator Splitting Algorithms with Application to Imaging Inverse Problems* Chuan He,Changhua Hu,2023-08-28 Image denoising image deblurring image inpainting super resolution and compressed sensing reconstruction have important application value in engineering practice and they are also the hot frontiers in the field of image processing This book focuses on the numerical analysis of ill condition of imaging inverse problems and the methods of solving imaging inverse problems based on operator splitting Both algorithmic theory and numerical experiments have been

addressed The book is divided into six chapters including preparatory knowledge ill condition numerical analysis and regularization method of imaging inverse problems adaptive regularization parameter estimation and parallel solution methods of imaging inverse problem based on operator splitting Although the research methods in this book take image denoising deblurring inpainting and compressed sensing reconstruction as examples they can also be extended to image processing problems such as image segmentation hyperspectral decomposition and image compression This book can benefit teachers and graduate students in colleges and universities or be used as a reference for self study or further study of image processing technology engineers   *Qualitative Methods in Inverse Scattering Theory* Fioralba Cakoni,David Colton,2005-11-03 Inverse scattering theory has been a particularly active and successful field in applied mathematics and engineering for the past twenty years The increasing demands of imaging and target identification require new powerful and flexible techniques besides the existing weak scattering approximation or nonlinear optimization methods One class of such methods comes under the general description of qualitative methods in inverse scattering theory This textbook is an easily accessible class tested introduction to the field It is accessible also to readers who are not professional mathematicians thus making these new mathematical ideas in inverse scattering theory available to the wider scientific and engineering community   *Inverse Acoustic and Electromagnetic Scattering Theory* David Colton,Rainer Kress,2019-11-06 The inverse scattering problem is central to many areas of science and technology such as radar sonar medical imaging geophysical exploration and nondestructive testing This book is devoted to the mathematical and numerical analysis of the inverse scattering problem for acoustic and electromagnetic waves In this fourth edition a number of significant additions have been made including a new chapter on transmission eigenvalues and a new section on the impedance boundary condition where particular attention has been made to the generalized impedance boundary condition and to nonlocal impedance boundary conditions Brief discussions on the generalized linear sampling method the method of recursive linearization anisotropic media and the use of target signatures in inverse scattering theory have also been added   **Integral Methods in Science and Engineering** Christian Constanda,S. Potapenko,2008 The physical world is studied by means of mathematical models which consist of differential integral and integro differential equations accompanied by a large assortment of initial and boundary conditions In certain circumstances such models yield exact analytic solutions When they do not they are solved numerically by means of various approximation schemes Whether analytic or numerical these solutions share a common feature they are constructed by means of the powerful tool of integration the focus of this self contained book An outgrowth of the Ninth International Conference on Integral Methods in Science and Engineering this work illustrates the application of integral methods to diverse problems in mathematics physics biology and engineering The thirty two chapters of the book written by scientists with established credentials in their fields contain state of the art information on current research in a variety of important practical disciplines The problems examined arise in real life processes and phenomena and the solution

techniques range from theoretical integral equations to finite and boundary elements Specific topics covered include spectral computations atmospheric pollutant dispersion vibration of drilling masts bending of thermoelastic plates homogenization equilibria in nonlinear elasticity modeling of syringomyelia fractional diffusion equations operators on Lipschitz domains systems with concentrated masses transmission problems equilibrium shape of axisymmetric vesicles boundary layer theory and many more Integral Methods in Science and Engineering is a useful and practical guide to a variety of topics of interest to pure and applied mathematicians physicists biologists and civil and mechanical engineers at both the professional and graduate student level **Dynamical Systems Method and Applications** Alexander G. Ramm,Nguyen S. Hoang,2013-06-07 Demonstrates the application of DSM to solve a broad range of operator equations The dynamical systems method DSM is a powerful computational method for solving operator equations With this book as their guide readers will master the application of DSM to solve a variety of linear and nonlinear problems as well as ill posed and well posed problems The authors offer a clear step by step systematic development of DSM that enables readers to grasp the method s underlying logic and its numerous applications Dynamical Systems Method and Applications begins with a general introduction and then sets forth the scope of DSM in Part One Part Two introduces the discrepancy principle and Part Three offers examples of numerical applications of DSM to solve a broad range of problems in science and engineering Additional featured topics include General nonlinear operator equations Operators satisfying a spectral assumption Newton type methods without inversion of the derivative Numerical problems arising in applications Stable numerical differentiation Stable solution to ill conditioned linear algebraic systems Throughout the chapters the authors employ the use of figures and tables to help readers grasp and apply new concepts Numerical examples offer original theoretical results based on the solution of practical problems involving ill conditioned linear algebraic systems and stable differentiation of noisy data Written by internationally recognized authorities on the topic Dynamical Systems Method and Applications is an excellent book for courses on numerical analysis dynamical systems operator theory and applied mathematics at the graduate level The book also serves as a valuable resource for professionals in the fields of mathematics physics and engineering Inverse Heat Transfer M. Necat Ozisik,2018-05-02 This book introduces the fundamental concepts of inverse heat transfer problems It presents in detail the basic steps of four techniques of inverse heat transfer protocol as a parameter estimation approach and as a function estimation approach These techniques are then applied to the solution of the problems of practical engineering interest involving conduction convection and radiation The text also introduces a formulation based on generalized coordinates for the solution of inverse heat conduction problems in two dimensional regions **Variational Methods in Imaging** Otmar Scherzer,Markus Grasmair,Harald Grossauer,Markus Haltmeier,Frank Lenzen,2008-10-09 This book is devoted to the study of variational methods in imaging The presentation is mathematically rigorous and covers a detailed treatment of the approach from an inverse problems point of view Many numerical examples accompany the theory

throughout the text It is geared towards graduate students and researchers in applied mathematics Researchers in the area of imaging science will also find this book appealing It can serve as a main text in courses in image processing or as a supplemental text for courses on regularization and inverse problems at the graduate level **Proceedings of the Third Asian Mathematical Conference 2000** Toshikazu Sunada,Polly Wee Sy,2002 COntains 55 research and expository articles on a wide range of currently active and interesting areas in pure and applied mathematics

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