

Methods in Geochemistry and Geophysics, 36

GEOPHYSICAL INVERSE THEORY AND REGULARIZATION PROBLEMS

M.S. ZHDANOV

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Geophysical Inverse Theory And Regularization Problems

Victor M. Corman



Geophysical Inverse Theory And Regularization Problems:

Geophysical Inverse Theory and Regularization Problems Michael S. Zhdanov, 2002-04-24 This book presents state of the art geophysical inverse theory developed in modern mathematical terminology The book brings together fundamental results developed by the Russian mathematical school in regularization theory and combines them with the related research in geophysical inversion carried out in the West It presents a detailed exposition of the methods of regularized solution of inverse problems based on the ideas of Tikhonov regularization and shows the different forms of their applications in both linear and nonlinear methods of geophysical inversion This text is the first to treat many kinds of inversion and imaging techniques in a unified mathematical manner The book is divided in five parts covering the foundations of the inversion theory and its applications to the solution of different geophysical inverse problems including potential field electromagnetic and seismic methods The first part is an introduction to inversion theory The second part contains a description of the basic methods of solution of the linear and nonlinear inverse problems using regularization The following parts treat the application of regularization methods in gravity and magnetic electromagnetic and seismic inverse problems The key connecting idea of these applied parts of the book is the analogy between the solutions of the forward and inverse problems in different geophysical methods The book also includes chapters related to the modern technology of geophysical imaging based on seismic and electromagnetic migration This volume is unique in its focus on providing a link between the methods used in gravity electromagnetic and seismic imaging and inversion and represents an exhaustive treatise on inversion theory

Inverse Theory and Applications in Geophysics Michael S. Zhdanov, 2015-07-15 Geophysical Inverse Theory and Applications Second Edition brings together fundamental results developed by the Russian mathematical school in regularization theory and combines them with the related research in geophysical inversion carried out in the West It presents a detailed exposition of the methods of regularized solution of inverse problems based on the ideas of Tikhonov regularization and shows the different forms of their applications in both linear and nonlinear methods of geophysical inversion It s the first book of its kind to treat many kinds of inversion and imaging techniques in a unified mathematical manner The book is divided in five parts covering the foundations of the inversion theory and its applications to the solution of different geophysical inverse problems including potential field electromagnetic and seismic methods Unique in its focus on providing a link between the methods used in gravity electromagnetic and seismic imaging and inversion it represents an exhaustive treatise on inversion theory Written by one of the world s foremost experts this work is widely recognized as the ultimate researcher s reference on geophysical inverse theory and its practical scientific applications Presents state of the art geophysical inverse theory developed in modern mathematical terminology the first to treat many kinds of inversion and imaging techniques in a unified mathematical way Provides a critical link between the methods used in gravity electromagnetic and seismic imaging and inversion and represents an exhaustive treatise on geophysical inversion theory

Features more than 300 illustrations figures charts and graphs to underscore key concepts Reflects the latest developments in inversion theory and applications and captures the most significant changes in the field over the past decade

Inverse Problems Mathias Richter, 2016-11-24 The overall goal of the book is to provide access to the regularized solution of inverse problems relevant in geophysics without requiring more mathematical knowledge than is taught in undergraduate math courses for scientists and engineers From abstract analysis only the concept of functions as vectors is needed Function spaces are introduced informally in the course of the text when needed Additionally a more detailed but still condensed introduction is given in Appendix B A second goal is to elaborate the single steps to be taken when solving an inverse problem discretization regularization and practical solution of the regularized optimization problem These steps are shown in detail for model problems from the fields of inverse gravimetry and seismic tomography The intended audience is mathematicians physicists and engineers having a good working knowledge of linear algebra and analysis at the upper undergraduate level

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

Acoustic and Elastic Wave Fields in Geophysics Alexander A. Kaufman, Anatoli L. Levshin, 2000
This book is a continuation of *Acoustic and Elastic Wave Fields in Geophysics Part I* published in 2000. The second volume is dedicated to propagation of linear plane spherical and cylindrical acoustic waves in different media. Chapter 1 is devoted to principles of geometric acoustic in plane wave approximation. The eikonal and transport equations are derived. Ray tracing and wavefront construction techniques are explained. Chapter 2 deals with dynamic properties of wave fields. The behavior of pressure and displacements amplitudes in zero approximation is analysed in two ways using Poynting vector and solving the transport equation. This chapter contains several examples related to shadow zones and caustics. In Chapter 3 using the results of analysis of high frequency wave kinematics and dynamics some fundamental aspects of Kirchhoff migration are described. Chapters 4 and 5 are devoted to propagation of plane waves in media with flat boundaries in the case of normal and oblique incidence. Special attention is paid to the case when an incident angle exceeds the critical angles. Formation of normal modes in the waveguide is discussed. Chapter 6 deals with a spherical wave reflection and refraction. The steepest descent method is introduced to describe the behavior of reflected transmitted head and evanescent waves. In Chapter 7 propagation of stationary and transient waves in a waveguide formed by a flat layer with low velocity are investigated. Normal modes and waves related to the branch points of integrands under consideration are studied. Dispersive properties of normal modes are discussed. Chapter 8 describes wave propagation inside cylinder in acoustic media. Several appendices are added to help the reader understand different aspects of mathematics used in the book.

Gravity and Magnetic Exploration William J. Hinze, Ralph R. B. von Frese, R. Von Frese, Afif H. Saad, 2013-03-14
This combination of textbook and reference manual provides a comprehensive account of gravity and magnetic methods for exploring the subsurface using surface marine airborne and satellite measurements. It describes key current topics and techniques physical properties of rocks and other Earth materials and digital data analysis methods used to process and interpret anomalies for subsurface information. Each chapter starts with an overview and concludes by listing key concepts to consolidate new learning. An accompanying website presents problem sets and interactive computer based exercises providing hands on experience of processing modeling and interpreting data. A comprehensive online suite of full color case histories illustrates the practical utility of modern gravity and magnetic surveys. This is an ideal text for advanced undergraduate and graduate courses and reference text for research academics and professional geophysicists. It is a valuable resource for all those interested in petroleum engineering mineral environmental geological and archeological exploration of the lithosphere.

Parameter Estimation and Inverse Problems Richard C. Aster, Brian Borchers, Clifford H. Thurber, 2013
Preface 1 Introduction 2 Linear Regression 3 Discretizing Continuous Inverse Problems 4 Rank Deficiency and Ill Conditioning 5 Tikhonov Regularization 6 Iterative Methods 7 Other Regularization Techniques 8 Fourier Techniques 9 Nonlinear Regression 10 Nonlinear Inverse Problems 11 Bayesian Methods Appendix A Review of Linear Algebra Appendix B Review of Probability and Statistics Appendix C Glossary

of Notation Bibliography Index Linear Regression Discretizing Continuous Inverse Problems Rank Deficiency and Ill Conditioning Tikhonov Regularization Iterative Methods Other Regularization Techniques Fourier Techniques Nonlinear Regression Nonlinear Inverse Problems Bayesian Methods The Journal of the Acoustical Society of America Acoustical Society of America, 2006 *Methods and Applications of Analysis*, 2004 Robust Statistics and Regularization in Geophysical Inverse Theory Stephen F. Elston, 1992 **Transactions of the SPWLA ... Annual Logging Symposium** Society of Professional Well Log Analysts, 2003 *Contributions to Geophysics & Geodesy*, 2005 Publications of the Institute of Geophysics, 1976 *Deconvolution and Inverse Theory* V. Dimri, 1992-10-08 This is the first study to present simultaneously both deconvolution and inversion two powerful tools of data analysis Featured within this volume are various geophysical convolution models and a treatment of deconvolution for a time varying signal The single channel time varying deconvolution is shown equivalent to the multichannel time invariant deconvolution thus a formalism and associated algorithms can handle both Inverse theory as well as various inversion schemes are presented on the basis of a relationship between a small perturbation to the model and its effects on the observation The information theory inversion scheme is discussed and several types of norm of minimization presented Additionally concepts and results of inverse theory are applied to design a new deconvolution operator for estimating magnetization and density distribution and the constraint of the Backus Gilbert formalism of inverse theory is used to design a new prediction error filter for maximum entropy spectral estimates Maximum likelihood another high resolution method is also presented This volume can be utilised as a graduate level text for courses in Geophysics Some chapters will be of use for graduate courses in Applied Mathematics Applied Statistics and Oceanography **Exploration Geophysics**, 2008 **Theory and Practice of Geophysical Data Inversion** Andreas Vogel, 1992 The contributions to this volume cover a wide spectrum of recent developments in geophysical data inversion including basic mathematics and general theory numerical methods as well as computer implementation of algorithms Most of the papers are motivated by problems arising from geophysical research and applications both on a global scale and with respect to local geophysical surveys underlining the increasing importance of geophysical exploration methods in various fields such as structural geology prospecting for mineral and energy resources hydro geology geotechnology environmental protection and archaeology The first section of the book deals with basic mathematics and general theory underlying geophysical data inversion Papers presented here are concerned with stabilization algorithms to solve ill posed inverse problems sensitivity of kernel function estimations to random data errors and reduction of errors in inverse modelling of response functions by linear constraints numerical procedures for approximating the solution to boundary value problems accuracy and stability of inverse ill posed problems constituted by problems of moments and fast Fourier transforms for solving potential field problems The second section contains papers on gravity and magnetics dealing with the solvability of the inverse gravimetric problem for sources represented by point masses and other elementary

solution of the inverse problem in cases of nonuniformly distributed data as obtained by palaeomagnetic studies satellite observations and surface projections of buried archaeological targets by inverse filtering of geomagnetic data **Extended Abstracts Book** EAGE Conference & Exhibition. Meeting,2002 *Expanded Abstracts with Biographies* ,2004

Bayesian Inference and Maximum Entropy Methods in Science and Engineering Ali

Mohammad-Djafari,2001-06-08 Bayesian inference and maximum entropy methods are central points of new scientific inference in mathematical physics and in all inverse problems in engineering and all probabilistic data analysis This volume contains peer reviewed selection of the papers presented at this international workshop Topics included are axiomatics and concepts bayesian parameter estimation algorithms for bayesian computation deconvolution and source separation quantum tomography tomographic imaging and image processing as well as bayesian inference in applications **Inverse Problems**

of Wave Propagation and Diffraction Guy Chavent,Pierre Célestin Sabatier,1997-06-19 This book describes the state of the art in the field of modeling and solving numerically inverse problems of wave propagation and diffraction It addresses mathematicians physicists and engineers as well Applications in such fields as acoustics optics and geophysics are emphasized Of special interest are the contributions to two and three dimensional problems without reducing symmetries Topics treated are the obstacle problem scattering by classical media and scattering by distributed media

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