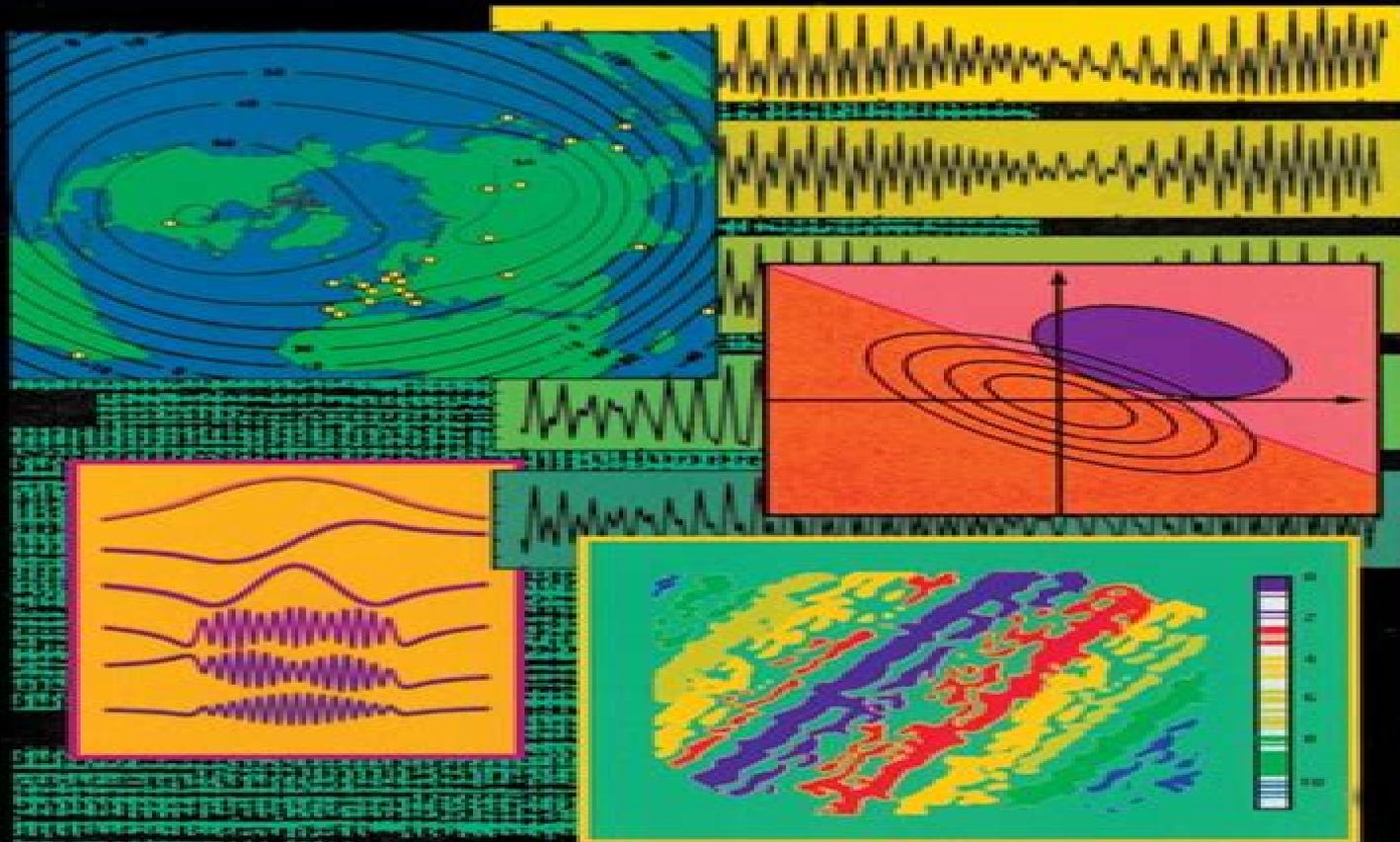


# Geophysical Inverse Theory



Robert L. Parker

# A Geophysical Inverse Theory Primer Andy Ganse

**William Menke**



## **A Geophysical Inverse Theory Primer Andy Ganse:**

**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

*Geophysical Inverse Theory* Robert L. Parker, 2019-12-31 In many physical sciences the most natural description of a system is with a function of position or time In principle infinitely many numbers are needed to specify that function but in practice only finitely many measurements can be made Inverse theory concerns the mathematical techniques that enable researchers to use the available information to build a model of the unknown system or to determine its essential properties In Geophysical Inverse Theory Robert Parker provides a systematic development of inverse theory at the graduate and professional level that emphasizes a rigorous yet practical solution of inverse problems with examples from experimental observations in geomagnetism seismology gravity electromagnetic sounding and interpolation Although illustrated with examples from geophysics this book has broad implications for researchers in applied disciplines from materials science and engineering to astrophysics oceanography and meteorology Parker s approach is to avoid artificial statistical constructs and to emphasize instead the reasonable assumptions researchers must make to reduce the ambiguity that inevitably arises in complex problems The structure of the book follows a natural division in the subject into linear theory in which the measured quantities are linear functionals of the unknown models and nonlinear theory which covers all other systems but is not nearly so well understood The book covers model selection as well as techniques for drawing firm conclusions about the earth

independent of any particular model

**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 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

Geophysical Data Analysis: Discrete Inverse Theory William

Menke,2012-06-26 Since 1984 Geophysical Data Analysis has filled the need for a short concise reference on inverse theory for individuals who have an intermediate background in science and mathematics The new edition maintains the accessible and succinct manner for which it is known with the addition of MATLAB examples and problem sets Advanced color graphics Coverage of new topics including Adjoint Methods Inversion by Steepest Descent Monte Carlo and Simulated Annealing methods and Bootstrap algorithm for determining empirical confidence intervals Additional material on probability including Bayesian influence probability density function and metropolis algorithm Detailed discussion of application of inverse theory

to tectonic gravitational and geomagnetic studies Numerous examples and end of chapter homework problems help you explore and further understand the ideas presented Use as classroom text facilitated by a complete set of exemplary lectures in Microsoft PowerPoint format and homework problem solutions for instructors

**Time Series Analysis and Inverse Theory for Geophysicists** David Gubbins,2004-03-18 This unique textbook provides the foundation for understanding and applying techniques commonly used in geophysics to process and interpret modern digital data The geophysicist s toolkit contains a range of techniques which may be divided into two main groups processing which concerns time series analysis and is used to separate the signal of interest from background noise and inversion which involves generating some map or physical model from the data These two groups of techniques are normally taught separately but are here presented together as parts I and II of the book Part III describes some real applications and includes case studies in seismology geomagnetism and gravity This textbook gives students and practitioners the theoretical background and practical experience through case studies computer examples and exercises to understand and apply new processing methods to modern geophysical datasets Solutions to the exercises are available on a website at <http://publishing.cambridge.org/resources/0521819652>

**Inverse Problems** Gottfried Anger,1993-09 Most mathematical problems in science technology and medicine are inverse problems Studying such problems is the only way of completely analyzing experimental results Inverse problems may be considered among the pressing problems of current mathematical research

Geophysical Data Analysis William Menke,2018-04-10 Geophysical Data Analysis Diverse Inverse Theory Fourth Edition is a revised and expanded introduction to inverse theory and tomography as it is practiced by geophysicists It demonstrates the methods needed to analyze a broad spectrum of geophysical datasets with special attention to those methods that generate images of the earth Data analysis can be a mathematically complex activity but the treatment in this volume is carefully designed to emphasize those mathematical techniques that readers will find the most familiar and to systematically introduce less familiar ones Using problems and case studies along with MATLAB computer code and summaries of methods the book provides data scientists and engineers in geophysics with the tools necessary to understand and apply mathematical techniques and inverse theory Includes material on probability including Bayesian influence probability density function and metropolis algorithm Offers detailed discussion of the application of inverse theory to tectonic gravitational and geomagnetic studies Contains numerous examples color figures and end of chapter homework problems to help readers explore and further understand presented ideas Includes MATLAB examples and problem sets Updated and refined throughout to bring the text in line with current understanding and improved examples and case studies Expanded sections to cover material such as second derivation smoothing and chi squared tests not covered in the previous edition

**Geophysical Data Analysis** Max A. Meju,1994

**Inverse Modeling in Exploration Geophysics** Andreas Vogel,1989-01-01

**Geophysical Inverse Theory Applied to Reconstruction of Large-scale Heterogeneities in Electrical Conductivity of Earth's Mantle** Anna Kelbert,2006

**Theory and Practice**

**of Geophysical Data Inversion** Andreas Vogel, 2012-12-06 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

**Large Scale Inverse Problems** Mike Cullen, Melina A. Freitag, Stefan Kindermann, Robert Scheichl, 2013 This book is the second volume of three volume series recording the Radon Special Semester 2011 on Multiscale Simulation Analysis in Energy and the Environment taking place in Linz Austria October 3-7 2011 The volume addresses the common ground in the mathematical and computational procedures required for large scale inverse problems and data assimilation in forefront applications

**Inverse Geophysical Problems** Vladimir N. Troyan, Masashi Hayakawa, 2002

**The Solution of the Inverse Problem in Geophysical Interpretation** R. Cassinis, 2012-06-15 As is apparent from the table of contents the lectures at the Third Course of the International School of Applied Geophysics Erice March 27 April 4 1980 the first part of this volume dealt with several applications of inversion to different geophysical methods For every field the more general lectures come first followed by those aimed at more specialized objectives Not all topics are covered and the coverage is not uniform The seismological section especially the seismic reflection methods is the most developed and this is only partly due to the actual state of the art Unfortunately only abstracts are available for two of the lectures The second part of the volume contains some short notes and contributions presented either by the lecturers themselves or by other participants They do not necessarily deal with the process of inversion itself but with the preparation and meaning of the data to be inverted or with some original treatments of problems that were discussed in the afternoon sessions The discussion sessions and the round table that followed the lectures were essential to the success of the Course and to an understanding of the different perspectives of the various specialists I hope that the group of very brilliant and

willing geophysicists that made the meeting so interesting will stay in touch, grow closer and meet again. Close scientific cooperation among them could contribute much to the unification of geophysical science.

**Inverse Problems of Electromagnetic Geophysical Fields**, 1999. This volume covers topics including two-dimensional problems of a magnetic exploration method involving artificial field magnetization and electric exploration by a direct current effective algorithms of solution of direct and inverse three-dimensional problems of magnetic exploration mathematical theory and algorithms of the solution of three-dimensional inverse problems of electric exploration with a direct current and explicit equations for inverse problems of electromagnetic field.

**Global Optimization Methods in Geophysical Inversion** Mrinal K. Sen, 2013. Making inferences about systems in the Earth's subsurface from remotely sensed sparse measurements is a challenging task. Geophysical inversion aims to find models which explain geophysical observations; a model-based inversion method attempts to infer model parameters by iteratively fitting observations with theoretical predictions from trial models. Global optimization often enables the solution of non-linear models employing a global search approach to find the absolute minimum of an objective function so that predicted data best fits the observations. This new edition provides an up-to-date overview of the most popular global optimization methods including a detailed description of the theoretical development underlying each method and a thorough explanation of the design, implementation and limitations of algorithms. A new chapter provides details of recently developed methods such as the neighborhood algorithm and particle swarm optimization. An expanded chapter on uncertainty estimation includes a succinct description on how to use optimization methods for model space exploration to characterize uncertainty and now discusses other new methods such as hybrid Monte Carlo and multi-chain MCMC methods. Other chapters include new examples of applications from uncertainty in climate modeling to whole earth studies. Several different examples of geophysical inversion including joint inversion of disparate geophysical datasets are provided to help readers design algorithms for their own applications. This is an authoritative and valuable text for researchers and graduate students in geophysics, inverse theory and exploration geoscience and an important resource for professionals working in engineering and petroleum exploration.

**The Estimation of Geopotentials by Way of Geophysical Inverse Theory** Mark T. Lane, Edward M. Gaposchkin, Lincoln Laboratory, MASSACHUSETTS INST OF TECH LEXINGTON LINCOLN LAB., 1986. Satellite to satellite tracking data SST can be used to measure the geopotential at the satellite altitude. This measurement can be used to estimate the Earth's gravity field at the Earth's surface, the so-called inverse problem. Geophysical inverse theory is applied to this inverse problem and numerical methods are developed and tested. Geophysical inverse theory is used to map the geopotential from the satellite altitude to a lower surface. Two configurations are explored and the geopotential in a local network is recovered with less than 4% error. Keywords: Geoid, Metric data, Geophysical inverse theory, Elliptic integrals, Theta functions.

**Generalized Inverse**, 1974. **Mathematical Problems in the Geophysical Sciences: Inverse problems, dynamo theory, and tides**, 1971.

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