

Seismic Data Processing

Theory and Practice

Michael Smeets

Seismic Data Processing Theory And Practice

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Seismic Data Processing Theory And Practice:

Seismic Data Processing L. Hatton, MH Worthington, J. Makin, 1991-01-15 The main emphasis of this large format book is on the practical application of seismic data processing methods It provides students and practicing exploration geologists and geophysicists with up to date information on computer systems data processing time series analysis seismic data processing migration and inversion theory and practice Relevant computer hardware and day to day procedures in a seismic data processing laboratory are discussed Seismic Data Processing Les Hatton, 1986 **3-D Seismic Interpretation** M. Bacon, R. Simm, T. Redshaw, 2007-10-18 3 D seismic data have become the key tool used in the petroleum industry to understand the subsurface In addition to providing excellent structural images the dense sampling of a 3 D survey makes it possible to map reservoir quality and the distribution of oil and gas Topics covered in this book include basic structural interpretation and map making the use of 3 D visualisation methods interpretation of seismic amplitudes including their relation to rock and fluid properties and the generation and use of AVO and acoustic impedance datasets This new paperback edition includes an extra appendix presenting new material on novel acquisition design pore pressure prediction from seismic velocity elastic impedance inversion and time lapse seismics Written by professional geophysicists with many years experience in the oil industry the book is indispensable for geoscientists using 3 D seismic data including graduate students and new entrants into the petroleum industry 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 Acquisition and Processing of Marine Seismic Data Derman Dondurur, 2018-03-09 Acquisition and Processing of Marine Seismic Data

demonstrates the main principles required equipment and suitable selection of parameters in 2D 3D marine seismic data acquisition as well as theoretical principles of 2D marine seismic data processing and their practical implications Featuring detailed datasets and examples the book helps to relate theoretical background to real seismic data This reference also contains important QC analysis methods and results both for data acquisition and marine seismic data processing Acquisition and Processing of Marine Seismic Data is a valuable tool for researchers and students in geophysics marine seismics and seismic data as well as for oil and gas exploration Contains simple step by step diagrams of the methodology used in the processing of seismic data to demonstrate the theory behind the applications Combines theory and practice including extensive noise QC and velocity analyses as well as examples for beginners in the seismic operations market Includes simple illustrations to provide to the audience an easy understanding of the theoretical background Contains enhanced field data examples and applications

Tensor Computation for Seismic Data Processing Feng Qian, Shengli Pan, Gulan Zhang, 2025-04-26 This book aims to provide a comprehensive understanding of tensor computation and its applications in seismic data analysis exclusively catering to seasoned researchers graduate students and industrial engineers alike Tensor emerges as a natural representation of multi dimensional modern seismic data and tensor computation can help prevent possible harm to the multi dimensional geological structure of the subsurface that occurred in classical seismic data analysis It delivers a wealth of theoretical computational technical and experimental details presenting an engineer's perspective on tensor computation and an extensive investigation of tensor based seismic data analysis techniques Embark on a transformative exploration of seismic data processing unlock the potential of tensor computation and reshape your approach to high dimensional geological structures The discussion begins with foundational chapters providing a solid background in both seismic data processing and tensor computation The heart of the book lies in its seven chapters on tensor based seismic data analysis methods From structured low tubal rank tensor completion to cutting edge techniques like tensor deep learning and tensor convolutional neural networks each method is meticulously detailed The superiority of tensor based data analysis methods over traditional matrix based data analysis approaches is substantiated through synthetic and real field examples showcasing their prowess in handling high dimensional modern seismic data Notable chapters delve into seismic noise suppression seismic data interpolation and seismic data super resolution using advanced tensor models The final chapter provides a cohesive summary of the conclusion and future research directions ensuring readers facilitate a thorough understanding of tensor computation applications in seismic data processing The appendix includes a hatful of information on existing tensor computation software enhancing the book's practical utility

Practical Seismic Data Analysis Hua-Wei Zhou, 2014-01-23 This modern introduction to seismic data processing in both exploration and global geophysics demonstrates practical applications through real data and tutorial examples The underlying physics and mathematics of the various seismic analysis methods are presented giving students an appreciation of their limitations and potential for creating

models of the sub surface Designed for a one semester course this textbook discusses key techniques within the context of the world s ever increasing need for petroleum and mineral resources equipping upper undergraduate and graduate students with the tools they need for a career in industry Examples presented throughout the text allow students to compare different methods and can be demonstrated using the instructor s software of choice Exercises at the end of sections enable students to check their understanding and put the theory into practice and are complemented by solutions for instructors and additional case study examples online to complete the learning package

Pragmatic Inversion of Geophysical Data Sven-Erik Hjelt,2006-04-10 Geophysical measurements are not done for the sake of art only The ultimate goal is to solve some well defined geological tectonical or structural problems For this purpose the data have to be interpreted translated into a physical model of the subsurface This book describes some of the most important common features of different geophysical data sets from the Introduction Users at universities but also practitioners in exploration physics or environmental sciences wherever signal processing is necessary will benefit from this textbook

Computational Neural Networks for Geophysical Data Processing M.M. Poulton,2001-06-13 This book was primarily written for an audience that has heard about neural networks or has had some experience with the algorithms but would like to gain a deeper understanding of the fundamental material For those that already have a solid grasp of how to create a neural network application this work can provide a wide range of examples of nuances in network design data set design testing strategy and error analysis Computational rather than artificial modifiers are used for neural networks in this book to make a distinction between networks that are implemented in hardware and those that are implemented in software The term artificial neural network covers any implementation that is inorganic and is the most general term Computational neural networks are only implemented in software but represent the vast majority of applications While this book cannot provide a blue print for every conceivable geophysics application it does outline a basic approach that has been used successfully

Coding and Decoding: Seismic Data Luc T. Ikelle,2010-03-29 Currently the acquisition of seismic surveys is performed as a sequential operation in which shots are computed separately one after the other This approach is similar to that of multiple access technology which is widely used in cellular communications to allow several subscribers to share the same telephone line The cost of performing various shots simultaneously is almost identical to that of one shot thus the savings in time and money expected from using the multishooting approach for computing seismic surveys compared to the current approach are enormous By using this approach the long standing problem of simulating a three dimensional seismic survey can be reduced to a matter of weeks and not years as is currently the case Investigates how to collect stimulate and process multishooting data Addresses the improvements in seismic characterization and resolution one can expect from multishooting data Aims to educate the oil and gas exploration and production business of the benefits of multishooting data and to influence their day to day surveying techniques

An Introduction to Applied and Environmental Geophysics John M. Reynolds,2011-03-31 An

Introduction to Applied and Environmental Geophysics 2nd Edition describes the rapidly developing field of near surface geophysics. The book covers a range of applications including mineral hydrocarbon and groundwater exploration and emphasises the use of geophysics in civil engineering and in environmental investigations. Following on from the international popularity of the first edition this new revised and much expanded edition contains additional case histories and descriptions of geophysical techniques not previously included in such textbooks. The level of mathematics and physics is deliberately kept to a minimum but is described qualitatively within the text. Relevant mathematical expressions are separated into boxes to supplement the text. The book is profusely illustrated with many figures, photographs and line drawings many never previously published. Key source literature is provided in an extensive reference section, a list of web addresses for key organisations is also given in an appendix as a valuable additional resource. Covers new techniques such as Magnetic Resonance Sounding, Controlled Source EM, shear wave seismic refraction and airborne gravity and EM techniques. Now includes radioactivity surveying and more discussions of down hole geophysical methods, hydrographic and Sub Bottom Profiling surveying and Unexploded Ordnance detection. Expanded to include more forensic archaeological, glaciological, agricultural and bio geophysical applications. Includes more information on physio chemical properties of geological engineering and environmental materials. Takes a fully global approach. Companion website with additional resources available at www.wiley.com/go/reynoldsintroduction2e. Accessible core textbook for undergraduates as well as an ideal reference for industry professionals. The second edition is ideal for students wanting a broad introduction to the subject and is also designed for practising civil and geotechnical engineers, geologists, archaeologists and environmental scientists who need an overview of modern geophysical methods relevant to their discipline. While the first edition was the first textbook to provide such a comprehensive coverage of environmental geophysics the second edition is even more far ranging in terms of techniques, applications and case histories.

An Introduction to Mining Seismology Slawomir Jerzy Gibowicz, Andrzej Kijko, 2013-10-22. An Introduction to Mining Seismology describes comprehensively the modern methods and techniques used to monitor and study seismicity and rockbursts in mines. Key case histories from various worldwide mining districts clearly illustrate and skillfully emphasize the practical aspects of mining seismology. This text is intended as a handbook for geophysicists and mining and rock mechanics engineers working at mines. It will also serve as an essential reference tool for seismologists working at research institutions on local seismicity not necessarily induced by mining. Presents a comprehensive description of seismicity induced by mining worldwide. Provides information on optimum network planning and seismic event location procedures in deep mines. Covers a broad array of topics including focal mechanism moment tensor and double couple versus non double couple seismic events in mines. Includes data on source parameters and scaling relations for seismic events in mines.

Aspects of Seismic Reflection Data Processing R. Marschall, 2012-12-06

Problems in Exploration Seismology and Their Solutions L. P. Geldart, Robert E. Sheriff, 2004. This book is designed for

students and for geophysicists who need a refresher on the basic theory required to solve practical problems Geophysical texts often provide problems but this book is unique in that it provides solutions also The authors include a summary of the basic theory required to solve each problem The 212 problems cover a wide range including least squares methods choosing velocities for various situations z transforms determining 2D and 3D field geometries and solving processing and interpretation problems *The German Continental Deep Drilling Program (KTB)* Rolf Emmermann, Jürgen

Wohlenberg, 2013-04-17 In October 1986 the German Minister for Research and Technology Bundesminister für Forschung und Technologie Dr H Riesenhuber officially announced that the super deep borehole of the Continental Deep Drilling Program of the Federal Republic of Germany KTB would be drilled in the Oberpfalz area of Northern Bavaria The site selection was based on a recommendation from the Deutsche Forschungsgemeinschaft DFG made after an evaluation by the Project Management of the technical and financial risks involved This decision was preceded by a conference held from September 19 to 21 1986 in Seeheim Odenwald at which the results of the site studies in the Oberpfalz and the Schwarzwald were presented and thoroughly debated The models and scientific targets resulting from these investigations formed the basis for a vote by the DFG Senate Commission for Geoscientific Interdisciplinary Research which was taken immediately after the conference After evaluation of all scientific and technical aspects the members of the commission voted almost unanimously for the Oberpfalz site It was however strongly emphasized that both locations had a wealth of attractive research objectives and that despite clear cut differences in some major aspects scientifically the two could be regarded as more or less equivalent Both locations would be excellent sites for research drilling and would certainly cor

Introduction to Petroleum Seismology, second edition Luc T. Ikelle, Lasse Amundsen, 2018-03-26 Introduction to Petroleum Seismology second edition SEG Investigations in Geophysics Series No 12 provides the theoretical and practical foundation for tackling present and future challenges of petroleum seismology especially those related to seismic survey designs seismic data acquisition seismic and EM modeling seismic imaging microseismicity and reservoir characterization and monitoring All of the chapters from the first edition have been improved and or expanded In addition twelve new chapters have been added These new chapters expand topics which were only alluded to in the first edition sparsity representation sparsity and nonlinear optimization near simultaneous multiple shooting acquisition and processing nonuniform wavefield sampling automated modeling elastic electromagnetic mathematical equivalences and microseismicity in the context of hydraulic fracturing Another major modification in this edition is that each chapter contains analytical problems as well as computational problems These problems include MatLab codes which may help readers improve their understanding of and intuition about these materials The comprehensiveness of this book makes it a suitable text for undergraduate and graduate courses that target geophysicists and engineers as well as a guide and reference work for researchers and professionals in academia and in the petroleum industry **The Marine Seismic Source** G.E. Parkes, L. Hatton, 2013-04-17 This book is

about marine seismic sources their history their physical principles and their deconvolution It is particularly accented towards the physical aspects rather than the mathematical principles of signature generation in water as it is these aspects which the authors have found to be somewhat neglected A huge amount of research has been carried out by both commercial and academic institutions over the years and the resulting literature is a little daunting to say the least In spite of this the subject is intrinsically very simple and relies on a very few fundamental physical principles a somewhat larger number of heuristic principles and a refreshingly small amount of blunderbuss mathematics As such it is still one of those subjects in which the gifted practical engineer reigns supreme and from which many of the important advances have originated In Chapter 1 of the book the underlying physics and concepts are discussed including pressure and wave propagation bubble motion virtual images and the factors determining choice of source In marine reflection seismology almost all of the seismic data acquired currently is done with either the airgun or the watergun which rely on the expulsion of air and water respectively to generate acoustic energy As a consequence the discussion in this chapter is geared towards these two sources as is much of the rest of the book

VSP Interpretive Processing Ronald Clifford Hinds, Neil Lennart Anderson, Richard Dwight Kuzmiski, 1996 For each case study the authors discuss the geology and interpretation of the existing seismic coverage prior to the drilling of the VSP well the well results and rationale behind recording the VSP data the reevaluation of the surface seismic coverage based on the VSP and associated well control and the utility of the respective VSP survey

Seismic Wave Theory Edward S. Krebs, 2019-03-28 Concise textbook on seismic wave theory with detailed derivations of formulas clear explanations of topics exercises and selected answers

The BIRPS Atlas Simon L. Klemperer, Richard Hobbs, British Institutions Reflection Profiling Syndicate, 1991 The BIRPS Atlas presents the 100 deep seismic reflection profiles collected around the British Isles by the BIRPS Group BIRPS British Institutions Reflection Profiling Syndicate at desk top scale

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