

HANDBOOK OF GEOPHYSICAL EXPLORATION

SECTION I. SEISMIC EXPLORATION

KLAUS HELBIG and SVEN TREITEL (Editors)

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VOLUME 19

SHALLOW  
HIGH-RESOLUTION  
REFLECTION SEISMICS

by  
J. BROUWER  
K. HELBIG

PERGAMON

# Shallow High Resolution Reflection Seismics

**Michael J. G. Cox**



## **Shallow High Resolution Reflection Seismics:**

**Shallow High-resolution Reflection Seismics** Jan Brouwer, Klaus Helbig, 1998 The book covers all aspects of acquisition processing and interpretation of shallow reflection seismic data for geotechnical and environmental purposes Chapter 1 provides a thorough exposition of i the mathematical foundations of digital seismics ii the physics of wave propagation in solids iii the mathematical tools for the analysis of wave fields This theoretical part is based extensively on first principles thus the book can be used as a stand alone reference to all aspects of shallow reflection seismics Chapter 2 describes the field instruments including the physical principles underlying them and their modern implementation and the acquisition techniques that allow to obtain the best data under the given technical and operational constraints Chapters 3 5 describe the processing required to maintain the resolution of seismic data without sacrificing other attributes of the data The discussion is particularly thorough in where the required techniques go beyond the standard processing steps known from exploration seismics Chapters 6 10 describe the use of portable vibrators in geotechnical surveying that was pioneered by the authors and their colleagues The first four of these chapters that describe the special techniques required and some of the opportunities offered by the use of these tools are based on experience with the portable P vibrator while chapter 10 was added after the recent introduction of the portable S vibrator to shallow surveying All five chapters are accompanied by data from actual surveys The book closes with six case histories from different settings in Western Europe based on impact sources weight drop and explosives

**Environmental Geology** Klaus Knödel, Gerhard Lange, Hans-Jürgen Voigt, 2007-12-31 This illustrated handbook describes a broad spectrum of methods in the fields of remote sensing geophysics geology hydrogeology geochemistry and microbiology designed to investigate landfill mining and industrial sites The descriptions provide information about the principle of the methods applications and fundamentals This handbook also deals with the stepwise procedure for investigating sites and common problems faced in efficient implementation of field operations

**Guidelines for Selecting Seismic Detectors for High Resolution Applications** C. Melvin Lepper, 1981

**Special Report** Cold Regions Research and Engineering Laboratory (U.S.), 1985 **Site Characterization Plan, Gulf Coast Salt Domes**, 1983 **Hydrogeologic Facies Characterization of an Alluvial Fan Near Fresno, California,**

**Using Geophysical Techniques**, 1997 **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      **Static Corrections for Seismic Reflection Surveys** Michael J. G. Cox, 1999 This reference manual is designed to enable more geophysicists to appreciate static corrections especially their limitations their relationship with near surface geology and their impact on the quality of final interpreted sections The book is addressed to those involved in data acquisition datum static corrections data processing datum static and residual static corrections and interpretation the impact that unresolved static corrections especially the long wavelength or low spatial frequency component have on the interpretation of the final section Simple explanations of the underlying principles are included in an attempt to remove some of the mystique of static corrections The principles involved are illustrated with simple models these are supplemented with many data examples This book details differences in approaches that must be considered among 2D 3D and crooked line recordings as well as between P wave and S wave surveys Static corrections are shown to be a simplified yet practical approach to modeling the effects of the near surface where a more correct wavefield or raypath modeled method may not be efficiently undertaken Chapters cover near surface topography and geology computation of datum static corrections uphole surveys refraction surveys static corrections limitations and effect on seismic data processes residual static corrections and interpretation aspects An extensive index and a large list of references are included      **Workshop on Noninvasive Geophysical Site Characterization** , 1992      *Land Seismic Case Studies for Near-Surface Modeling and Subsurface Imaging* Öz Yilmaz, 2021-06-30 Written for practicing geophysicists *Land Seismic Case Studies for Near Surface Modeling and Subsurface Imaging* is a comprehensive guide to understanding and interpreting seismic data The culmination of land seismic data acquisition and processing projects conducted by the author over the last two decades this book contains more than nearly 800 figures from worldwide case studies conducted in both 2D and 3D Beginning with Chapter 1 on seismic characterization of the near surface Chapter 2 presents near surface modeling by traveltime and full wave inversion Chapter 3 presents near surface modeling by imaging and then Chapter 4 includes detailed case studies for near surface modeling Chapter 5 reviews single and multichannel signal processing of land seismic data with the key objective of removing surface waves and guided waves that are characterized as coherent linear noise Uncommon seismic data acquisition methods including large offset acquisition in thrust belts to capture the large amplitude supercritical reflections swath line acquisition and joint PP and SH SH seismic imaging are highlighted in Chapter 6 and Chapter 7 presents image based rms velocity estimation and discusses the problem of velocity uncertainty The final two chapters focus exclusively on case studies 2D in Chapter 8 and 3D in Chapter 9 An outstanding teaching tool this book includes analysis workflows containing processing steps designed to solve specific problems Essential for anyone involved in acquisition processing and inversion of seismic data this volume will become the

definitive reference for understanding how the variables in seismic acquisition are directly reflected in the data      *Wave Fields in Real Media* José M. Carcione, 2007-01-24 *Wave Fields in Real Media* examines the differences between an ideal and a real description of wave propagation where ideal means an elastic lossless isotropic and single phase medium and real means an anelastic anisotropic and multi phase medium The analysis starts by introducing the relevant stress strain relation This relation and the equations of momentum conservation are combined to give the equation of motion The differential formulation is written in terms of memory variables and Biot's theory is used to describe wave propagation in porous media For each rheology a plane wave analysis is performed in order to understand the physics of wave propagation The book contains a review of the main direct numerical methods for solving the equation of motion in the time and space domains The emphasis is on geophysical applications for seismic exploration but researchers in the fields of earthquake seismology rock acoustics and material science including many branches of acoustics of fluids and solids may also find this text useful Presents the fundamentals of wave propagation in anisotropic anelastic and porous media Contains a new chapter on the analogy between acoustic and electromagnetic waves incorporating the subject of electromagnetic waves Emphasizes geophysics particularly seismic exploration for hydrocarbon reservoirs which is essential for exploration and production of oil

**Archaeogeophysics** Gad El-Qady, Mohamed Metwaly, 2018-07-11 This book describes the application of non destructive geophysical methods in subsurface archaeological features Such non destructive methods are magnetometry electrical resistance electromagnetic conductivity magnetic susceptibility and ground penetrating radar This book also includes the last improvements in instrumentation data processing and interpretations of the collected data sets leading to the rapid progress in geophysical applications in the field of archaeological investigations The book also provides complete case studies and archaeological interpretation obtained our results carried out in different localities around the world

**Assessment of Regional Earthquake Hazards and Risk Along the Wasatch Front, Utah** Paula Gori, Walter W. Hays, 2000      **Near-surface Geophysics** Dwain K. Butler, 2005 *Near Surface Geophysics* SEG Investigations in Geophysics Series No 13 presents concepts and fundamentals of near surface geophysics in Part 1 and applications and case histories in Part 2 Dedicated to Stanley H Ward *Near Surface Geophysics* updates and extends the scope of his landmark three volume book *Geotechnical and Environmental Geophysics* published by SEG in 1990 Part 1 of *Near Surface Geophysics* contains innovative material on magnetic and electrical methods subsurface geophysics near surface seismology electromagnetic induction and ground penetrating radar Part 2 emphasizes the determination of physical properties the prevalence of multimethod surveys and integrated interpretations and the increasing use of model based survey planning execution and interpretation *Near Surface Geophysics* a peer reviewed book will be of interest to practitioners and students      *Current Environmental Issues and Challenges* Giacomo Cao, Roberto Orrù, 2014-04-29 Few books currently exist that cover such a wide spectrum of topics The chapters dealing with air pollution from mobile sources air pollution and health effects and air

quality modelling fall into the air pollution category while the ones related to microalgae for carbon dioxide sequestration biofuels production fuel cells and solar energy technology respectively can be ascribed to the energy topic Several technologies to handle a wide spectrum of environmental pollutants are taken into account in numerous chapters The chapter on biodiversity is clearly related to the conservation issue while the water pollution subject is tackled by the chapter on water quality monitoring Finally a general analysis on green business as well as a chapter on grid cloud computing technology for collaborative problem solving and shared resources management conclude the work Because of its breadth of coverage this book is particularly useful as a graduate text

**Active Geophysical Monitoring**, 2010-03-05 Active geophysical monitoring is an important new method for studying time evolving structures and states in the tectonically active Earth's lithosphere It is based on repeated time lapse observations and interpretation of rock induced changes in geophysical fields periodically excited by controlled sources In this book the results of strategic systematic development and the application of new technologies for active geophysical monitoring are presented The authors demonstrate that active monitoring may drastically change solid Earth geophysics through the acquisition of substantially new information based on high accuracy and real time observations Active monitoring also provides new means for disaster mitigation in conjunction with substantial international and interdisciplinary cooperation Introduction of a new concept Most experienced authors in the field Comprehensiveness

**Fractal Models in Exploration Geophysics** V.P. Dimri, R.P. Srivastava, Nimisha Vedanti, 2012-07-17 Researchers in the field of exploration geophysics have developed new methods for the acquisition processing and interpretation of gravity and magnetic data based on detailed investigations of bore wells around the globe Fractal Models in Exploration Geophysics describes fractal based models for characterizing these complex subsurface geological structures The authors introduce the inverse problem using a fractal approach which they then develop with the implementation of a global optimization algorithm for seismic data very fast simulated annealing VFSA This approach provides high resolution inverse modeling results particularly useful for reservoir characterization Serves as a valuable resource for researchers studying the application of fractals in exploration and for practitioners directly applying field data for geo modeling Discusses the basic principles and practical applications of time lapse seismic reservoir monitoring technology application rapidly advancing topic Provides the fundamentals for those interested in reservoir geophysics and reservoir simulation study Demonstrates an example of reservoir simulation for enhanced oil recovery using CO<sub>2</sub> injection

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

Engineering Geophysics Anna Bondo Medhus,Lone Klinkby,2022-11-30 Engineering Geophysics connects onshore geotechnical engineering challenges to the geophysical methods that may be applied to solve them Unknown geological conditions are a risk in construction projects and geophysical information can help to identify those risks The book answers questions on how why and when the individual and combined methods provide the results requested Flowcharts guide the reader to geophysical methods that can be applied for various engineering challenges and the solutions are illustrated with practical case histories The book is intended mainly for geotechnical engineers and geologists but also for geophysicists or managers in need of an overview or brushup on geophysical methods and their practical applications In addition it can be used by educational institutions in courses both for geotechnical engineers and geologists

*Advances in Near-surface Seismology and Ground-penetrating Radar, Volume 15* Richard D. Miller,John H. Bradford,Klaus Holliger,Rebecca B. Latimer,2010-01-11 Advances in Near surface Seismology and Ground penetrating Radar SEG Geophysical Developments Series No 15 is a collection of original papers by renowned and respected authors from around the world Technologies used in the application of near surface seismology and ground penetrating radar have seen significant advances in the last several years Both methods have benefited from new processing tools increased computer speeds and an expanded variety of applications This book divided into four sections Reviews Methodology Integrative Approaches and Case Studies Captures the most significant cutting edge issues in active areas of research unveiling truly pertinent studies that address fundamental applied problems This collection of manuscripts grew from a core group of papers presented at a post convention workshop Advances in Near surface Seismology and Ground penetrating Radar held during the 2009 SEG Annual Meeting in Houston Texas This is the first cooperative publication effort between the near surface communities of SEG AGU and EEGS It will appeal to a large and diverse audience that includes researchers and practitioners inside and outside the near surface geophysics community Publisher description

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