

HANDBOOK OF GEOPHYSICAL EXPLORATION
SEISMIC EXPLORATION

Klaus Helbig and Sven Treitel, Editors

VOLUME 33

Seismic Amplitude Inversion in Reflection Tomography

by Y. WANG

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Seismic Amplitude Inversion In Reflection Tomography

Yanghua Wang



Seismic Amplitude Inversion In Reflection Tomography:

Seismic Amplitude Inversion in Reflection Tomography Yanghua Wang, 2003 This is the first book of its kind on seismic amplitude inversion in the context of reflection tomography The aim of the monograph is to advocate the use of ray amplitude data separately or jointly with traveltime data in reflection seismic tomography The emphasis of seismic exploration is on imaging techniques so that seismic section can be interpreted directly as a geological section In contrast it is perhaps ironic that in decades of industrial seismology one major aspect of waveform data that potentially is easier to measure and analyse has generally been ignored That is the information content of seismic amplitudes Perhaps the potential complexity has deterred most researchers from a more thorough investigation of the practical use of seismic amplitude data The author of this volume presents an authoritative and detailed study of amplitude data as used in conjunction with traveltime data to provide better constraints on the variation of seismic wave speed in the subsurface One of the fundamental problems in conventional reflection seismic tomography using only traveltime data is the possible ambiguity between the velocity variation and the reflector depth The inclusion of amplitude data in the inversion may help to resolve this problem because the amplitudes and traveltimes are sensitive to different features of the subsurface model and thereby provide more accurate information about the subsurface structure and the velocity distribution An essential goal of this monograph is to make the amplitude inversion method work with real reflection seismic data

Seismic Amplitude Inversion in Reflection Tomography Yanghua Wang, 2003-02-25 This is the first book of its kind on seismic amplitude inversion in the context of reflection tomography The aim of the monograph is to advocate the use of ray amplitude data separately or jointly with traveltime data in reflection seismic tomography The emphasis of seismic exploration is on imaging techniques so that seismic section can be interpreted directly as a geological section In contrast it is perhaps ironic that in decades of industrial seismology one major aspect of waveform data that potentially is easier to measure and analyse has generally been ignored That is the information content of seismic amplitudes Perhaps the potential complexity has deterred most researchers from a more thorough investigation of the practical use of seismic amplitude data The author of this volume presents an authoritative and detailed study of amplitude data as used in conjunction with traveltime data to provide better constraints on the variation of seismic wave speed in the subsurface One of the fundamental problems in conventional reflection seismic tomography using only traveltime data is the possible ambiguity between the velocity variation and the reflector depth The inclusion of amplitude data in the inversion may help to resolve this problem because the amplitudes and traveltimes are sensitive to different features of the subsurface model and thereby provide more accurate information about the subsurface structure and the velocity distribution An essential goal of this monograph is to make the amplitude inversion method work with real reflection seismic data

Seismic Inversion Yanghua Wang, 2016-09-15 Seismic inversion aims to reconstruct a quantitative model of the Earth subsurface by solving an inverse problem based on seismic measurements There are at least

three fundamental issues to be solved simultaneously non linearity non uniqueness and instability This book covers the basic theory and techniques used in seismic inversion corresponding to these three issues emphasising the physical interpretation of theoretical concepts and practical solutions This book is written for master and doctoral students who need to understand the mathematical tools and the engineering aspects of the inverse problem needed to obtain geophysically meaningful solutions Building on the basic theory of linear inverse problems the methodologies of seismic inversion are explained in detail including ray impedance inversion and waveform tomography etc The application methodologies are categorised into convolutional and wave equation based groups This systematic presentation simplifies the subject and enables an in depth understanding of seismic inversion This book also provides a practical guide to reservoir geophysicists who are attempting quantitative reservoir characterisation based on seismic data Philosophically the seismic inverse problem allows for a range of possible solutions but the techniques described herein enable geophysicists to exclude models that cannot satisfy the available data This book summarises the author s extensive experience in both industry and academia and includes innovative techniques not previously published

Seismic Inverse Q Filtering Yanghua Wang,2009-01-26 Seismic inverse Q filtering is a data processing technology for enhancing the resolution of seismic images It employs a wave propagation reversal procedure that compensates for energy absorption and corrects wavelet distortion due to velocity dispersion By compensating for amplitude attenuation seismic data can provide true relative amplitude information for amplitude inversion and subsequent reservoir characterization By correcting the phase distortion seismic data with enhanced vertical resolution can yield correct timings for lithological identification This monograph presents the theory of inverse Q filtering and a series of algorithms collected with the following selection criteria in mind robustness effectiveness and practicality The book is written for processing geophysicists who are attempting to improve the quality of seismic data in terms of resolution and signal to noise ratio as well as for reservoir geophysicists who are concerned about seismic fidelity in terms of true amplitudes true timings and true frequencies It will also be particularly valuable as a guide for seasoned geophysicists who are attempting to develop seismic software for various research settings Finally it can be used as a reference work or textbook for postgraduate students in seismic and reservoir geophysics

Basic Theory in Reflection Seismology J.K. Costain,C. Coruh,2004-10-27 The material in this volume provides the basic theory necessary to understand the principles behind imaging the subsurface of the Earth using reflection and refraction seismology For reflection seismology the end product is a record section from a collection of wiggly traces that are recorded in the field from which information about the properties of subsurface structure and rock can be derived For the most part the principles of imaging are the same regardless of the depth to the target the same mathematical background is necessary for targeting a shallow water table as for investigating the base of the earth s continental crust at a depth of 30 50 km

Seismic Waves and Rays in Elastic Media M.A. Slawinski,2003-08-04 This book seeks to explore seismic phenomena in elastic media and emphasizes the

interdependence of mathematical formulation and physical meaning The purpose of this title which is intended for senior undergraduate and graduate students as well as scientists interested in quantitative seismology is to use aspects of continuum mechanics wave theory and ray theory to describe phenomena resulting from the propagation of waves The book is divided into three parts Elastic continua Waves and rays and Variational formulation of rays In Part I continuum mechanics are used to describe the material through which seismic waves propagate and to formulate a system of equations to study the behaviour of such material In Part II these equations are used to identify the types of body waves propagating in elastic continua as well as to express their velocities and displacements in terms of the properties of these continua To solve the equations of motion in anisotropic inhomogeneous continua the high frequency approximation is used and establishes the concept of a ray In Part III it is shown that in elastic continua a ray is tantamount to a trajectory along which a seismic signal propagates in accordance with the variational principle of stationary travel time **Advances in Geophysics**, 2003-12-11

The critically acclaimed serialized review journal for nearly fifty years *Advances in Geophysics* is a highly respected publication in the field of geophysics Since 1952 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike Now with over 45 volumes the Serial contains much material still relevant today truly an essential publication for researchers in all fields of geophysics **Handbook of Signal Processing in Acoustics** David Havelock, Sonoko Kuwano, Michael Vorländer, 2008-10-26 The Handbook of Signal Processing in Acoustics brings together a wide range of perspectives from over 100 authors to reveal the interdisciplinary nature of the subject It brings the key issues from both acoustics and signal processing into perspective and is a unique resource for experts and practitioners alike to find new ideas and techniques within the diversity of signal processing in acoustics Seismic Stratigraphy, Basin Analysis and Reservoir Characterisation P.C.H. Veeken, 2006-11-13 The interest in seismic stratigraphic techniques to interpret reflection datasets is well established The advent of sophisticated subsurface reservoir studies and 4D monitoring for optimising the hydrocarbon production in existing fields does demonstrate the importance of the 3D seismic methodology The added value of reflection seismics to the petroleum industry has clearly been proven over the last decades Seismic profiles and 3D cubes form a vast and robust data source to unravel the structure of the subsurface It gets nowadays exploited in ever greater detail Larger offsets and velocity anisotropy effects give for instance access to more details on reservoir flow properties like fracture density porosity and permeability distribution Elastic inversion and modelling may tell something about the change in petrophysical parameters Seismic investigations provide a vital tool for the delineation of subtle hydrocarbon traps They are the basis for understanding the regional basin framework and the stratigraphic subdivision Seismic stratigraphy combines two very different scales of observation the seismic and well control The systematic approach applied in seismic stratigraphy explains why many workers are using the principles to evaluate their seismic observations The here presented modern geophysical techniques allow more accurate prediction of the changes in subsurface geology Dynamics of

sedimentary environments are discussed with its relation to global controlling factors and a link is made to high resolution sequence stratigraphy Seismic Stratigraphy Basin Analysis and Reservoir Characterisation summarizes basic seismic interpretation techniques and demonstrates the benefits of integrated reservoir studies for hydrocarbon exploration Topics are presented from a practical point of view and are supported by well illustrated case histories The reader student as well as professional geophysicists geologists and reservoir engineers is taken from a basic level to more advanced study techniques Overview reflection seismic methods and its limitations Link between basic seismic stratigraphic principles and high resolution sequence stratigraphy Description of various techniques for seismic reservoir characterization and synthetic modelling Overview inversion techniques AVO and seismic attributes analysis **Quantitative Borehole Acoustic**

Methods X.M. Tang, Chuen Hon Arthur Cheng, 2004-01-27 Acoustic logging is a multidisciplinary technology involving basic theory instrumentation and data processing interpretation methodologies The advancement of the technology now allows for a broad range of measurements to obtain formation properties such as elastic wave velocity and attenuation formation permeability and seismic anisotropy that are important for petroleum reservoir exploration With these advances it is easier to detect and characterize formation fractures estimate formation stress field and locate estimate petroleum reserves The technology has evolved from the monopole acoustic logging into the multipole including dipole cross dipole and even quadrupole acoustic logging measurements The measurement process has developed from the conventional wireline logging into the logging while drilling stage For such a fast developing technology with applications that are interesting to readers of different backgrounds it is necessary to have systematic documentation of the discipline including the theory methods and applications as well as the technology s past present and near future development trends Quantitative Borehole Acoustic Methods provides such documentation with emphasis on the development over the past decade Although considerable effort has been made to provide a thorough basis for the theory and methodology development emphasis is placed on the applications of the developed methods The applications are illustrated with field data examples Many of the acoustic waveform analysis processing methods described in the book are now widely used in the well logging industry

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