



GEOPHYSICAL EXPLORATION
SERIES

Klaus Helbig and Peter Treitel, Editors

VOLUME 24

Seismic Signatures and Analysis of Reflection Data in Anisotropic Media

by L. Treutkin

Seismic Signatures And Analysis Of Reflection Data In Anisotropic Media

M Lipman

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Seismic Signatures And Analysis Of Reflection Data In Anisotropic Media:

Seismic Signatures and Analysis of Reflection Data in Anisotropic Media I. Tsvankin, 2005-06-13 Following the breakthrough in the last decade in identifying the key parameters for time and depth imaging in anisotropic media and developing practical methodologies for estimating them from seismic data *Seismic Signatures and Analysis of Reflection Data in Anisotropic Media* primarily focuses on the far reaching exploration benefits of anisotropic processing This volume provides the first comprehensive description of reflection seismic signatures and processing methods in anisotropic media It identifies the key parameters for time and depth imaging in transversely isotropic media and describes practical methodologies for estimating them from seismic data Also it contains a thorough discussion of the important issues of uniqueness and stability of seismic velocity analysis in the presence of anisotropy The book contains a complete description of anisotropic imaging methods from the theoretical background to algorithms to implementation issues Numerous applications to synthetic and field data illustrate the improvements achieved by the anisotropic processing and the possibility of using the estimated anisotropic parameters in lithology discrimination Focuses on the far reaching exploration benefits of anisotropic processing First comprehensive description of reflection seismic signatures and processing methods in anisotropic media *Seismic Signatures and Analysis of Reflection Data in Anisotropic Media* I. D. Tsvankin, 2012

Seismic Signatures and Analysis of Reflection Data in Anisotropic Media Ilya Tsvankin, 2012 This is the third edition of Ilya Tsvankin's reference volume on seismic anisotropy and application of anisotropic models in reflection seismology *Seismic Signatures and Analysis of Reflection Data in Anisotropic Media* Geophysical References Series No 19 provides essential background information about anisotropic wave propagation introduces efficient notation for transversely isotropic TI and orthorhombic media and identifies the key anisotropy parameters for imaging and amplitude analysis To gain insight into the influence of anisotropy on a wide range of seismic signatures exact solutions are simplified in the weak anisotropy approximation Particular attention is given to moveout analysis and P wave time domain processing for transverse isotropy with a vertical VTI and tilted TTI symmetry axis Description of the amplitude variation with offset AVO response of P and S waves in TI media shows that anisotropy may cause serious distortions in both the reflection coefficient and geometrical spreading factor The far reaching benefits of anisotropic processing methods are demonstrated on synthetic examples and field data

Seismic Signatures and Analysis of Reflection Data in Anisotropic Media I. D. Tsvankin, 2012 This is a new edition of Ilya Tsvankin's reference volume on seismic anisotropy and application of anisotropic models in reflection seismology It provides essential background information about anisotropic wave propagation introduces efficient notation for transversely isotropic TI and orthorhombic media and identifies the key anisotropy parameters for imaging and amplitude analysis To gain insight into the influence of anisotropy on a wide range of seismic signatures exact solutions are simplified in the weak anisotropy approximation **Seismic signatures and analysis of reflection data in anisotropic media** I. D.

Tsvankin, 2001 Understanding Seismic Anisotropy in Exploration and Exploitation, Second Edition Leon Thomsen, 2014-10-01 Understanding Seismic Anisotropy in Exploration and Exploitation second edition by Leon Thomsen is designed to show you how to recognize the effects of anisotropy in your data and to provide you with the intuitive concepts that you will need to analyze it Since its original publication in 2002 seismic anisotropy has become a mainstream topic in exploration geophysics With the emergence of the shale resource play the issues of seismic anisotropy have become central because all shales are seismically anisotropic whether fractured or not With the advent of wide azimuth surveying it has become apparent that most rocks are azimuthally anisotropic with P wave velocities and P AVO gradients varying with source receiver azimuth What this means is that analysis of such data with narrow azimuth algorithms and concepts will necessarily fail to get the most out of this expensively acquired data The issues include not only seismic wave propagation but also seismic rock physics Isotropic concepts including velocity Young's modulus and Poisson's ratio have no place in the discussion of anisotropic rocks unless qualified in some directional way e.g. vertical Young's modulus Likewise fluid substitution in anisotropic rocks using the isotropic Biot Gassmann formula leads to formal errors because the bulk modulus does not appear in a natural way within the anisotropic P wave velocity This updated edition is now current as of 2014

Understanding Seismic Anisotropy in Exploration and Exploitation Leon Thomsen, 2002 All rock masses are seismically anisotropic but we generally ignore this in our seismic acquisition processing and interpretation The anisotropy nonetheless does affect our data in ways that limit the effectiveness with which we can use it as long as we ignore it This book produced for use with the fifth SEG EAGE Distinguished Instructor Short Course helps us understand why this inconsistency between reality and practice has been so successful in the past and why it will be less successful in the future as we acquire better seismic data especially including vector seismic data and correspondingly higher expectations of it This book helps us understand how we can modify our practice to more fully realize the potential inherent in our data through algorithms which recognize the fact of seismic anisotropy

Introduction to Petroleum Seismology Luc Ikelle, Lasse Amundsen, 2005 Introduction to Petroleum Seismology SEG Investigations in Geophysics Series No 12 by Luc T Ikelle and Lasse Amundsen provides the basic theoretical and practical background needed to tackle present and future challenges of petroleum seismology especially those related to seismic data acquisition and imaging and to reservoir characterization and monitoring The first part of the book evolves from first principles of physics to the fundamentals of elastodynamic wave propagation the building blocks for seismic analysis The second part discusses modern developments in petroleum seismology such as multicomponent data multiple elimination amplitude variation with offset and azimuth analysis and inversion anisotropy and linear anelasticity Aspects of Fourier and wavelet representations of seismic signals and the fundamentals of higher order statistics for analyzing seismic signals also are treated *Seismology of Azimuthally Anisotropic Media and Seismic Fracture Characterization* I. D. Tsvankin, 2011 Because most sedimentary rocks

encountered in oil and gas exploration are effectively anisotropic it is imperative to properly estimate seismic anisotropy and incorporate it into data processing and imaging algorithms Seismology of Azimuthally Anisotropic Media and Seismic Fracture Characterization SEG Geophysical References Series No 17 presents a systematic analysis of seismic signatures for azimuthally anisotropic media and describes anisotropic inversion processing methods for wide azimuth reflection data and VSP vertical seismic profiling surveys The main focus is on kinematic parameter estimation techniques operating with P waves as well as with the combination of PP and PS mode converted data The part devoted to prestack amplitudes includes azimuthal AVO amplitude variation with offset analysis and a concise treatment of attenuation coefficients which are highly sensitive to the presence of anisotropy Discussion of fracture characterization is based on modern effective media theories and illustrates both the potential and limitations of seismic methods Field data examples highlight the improvements achieved by accounting for anisotropy in seismic processing imaging and fracture detection Journal of Seismic Exploration ,2009 Anisotropic Modeling and Imaging Linbin Zhang,2004 **The Leading Edge** ,2009 **Vertical Seismic Profiling** Bob Adrian Hardage,2000 Hardbound The book is a comprehensive and concise systematic presentation of the technique of Vertical Seismic Profiling for the study of subsurface properties and structure Compared to the previous editions from 1983 and 1985 the 1999 edition will contain much new material on equipment advances in the fields of a o multi level receiver arrays small diameter receivers vertical cable arrays fiber optic cable and expanded applications such as reverse VSP drill bit source 3 D VSP imaging stratigraphic calibration of 3 D seismic images crosswell profiling single well imaging systems Also the new book will contain reflections on the industry VSP research climate and the role of the US National laboratories in VSP Research Seismic Inversion & Deconvolution Enders A. Robinson,1999 *Handbook of Geophysical Exploration* Enders A. Robinson,1999 Oilfield Review ,2002 **Applied Mechanics Reviews** ,1996 **Workshop Report** , Scientific and Technical Aerospace Reports ,1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **SPE Reservoir Evaluation & Engineering** ,2008

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