An Introduction To Velocity Model Building By Ian Lones Isbn 978

The Seismic Velocity Model as an Interpretation AssetThe Seismic Velocity Model as an Interpretation AssetA Practical Guide to Seismic Reservoir CharacterizationQuantitative Analysis of Geopressure for Geoscientists and EngineersMelt Water Retention Processes in Snow and Firn on Ice Sheets and Glaciers: Observations and ModelingU.S. Geological Survey Open-file ReportNational Earthquake Hazards Reduction Program, Summaries of Technical Reports Volume XXXIIICircum-Arctic Lithosphere EvolutionThrust Belts and Foreland BasinsLithological Relevance of Near-surface Seismic Velocity ModelBulletin of the International Railway Congress AssociationBulletin of the International Railway AssociationMonthly BulletinRailroad Age GazetteVelocity Model Building Using Residual-moveout-based Wave-equation Migration Velocity AnalysisTraveltime Inversion for a 3-D Near Surface Velocity ModelEstimating a Two Dimensional Velocity Model Via Inversion of Asymptotic Linear Velocity Analysis ResultsTransactions of the Institution of Naval ArchitectsLocomotive, Railway Carriage and Wagon ReviewTransactions of the Institution of Naval Architects Phil Schultz Phil Schultz Timothy Tylor-Jones Nader C. Dutta W. Tad Pfeffer V. Pease Olivier Lacombe Genet Tamiru International Railway Congress Association International Railway Association International Railway Congress Association Yang Zhang James Layton Simmons Salem Gulaiyel Al-Juhani Institution of Naval Architects

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a velocity model can have enduring and growing interpretive value beyond its initial creation to optimize the seismic image the 3d velocity model often is built carefully with a combination of geophysical and geologic input because of the accuracy demands placed on it by the requirements of depth imaging as such this model becomes an increasingly effective interpretive tool this book first published for use with the second seg eage distinguished instructor short course addresses ways in which the interpreter should participate in development of the velocity model and underscores the velocity model s interpretive value with numerous case study examples this volume will be invaluable to interpreters who are excited about the prospect of participating actively in the velocity model building process and who wish to pursue aggressively the additional advantages offered by using the velocity model during interpretation

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this book covers in detail the entire workflow for quantitative seismic interpretation of subsurface modeling and characterization it focusses on each step of the geo modeling workflow starting from data preconditioning and wavelet extraction which is the basis for the reservoir geophysics described and introduced in the following chapters this book allows the reader to get a comprehensive insight of the most common and advanced workflows it aims at graduate students related to energy hydrocarbons co2 geological storage and near surface characterization as well as professionals in these industries the reader benefits from the strong and coherent theoretical background of the book which is accompanied with real case examples

an overview of the processes related to geopressure development prediction and detection using state of the art tools and technologies

melt takes place where the surface of glaciers or ice sheets interacts with the atmosphere while the processes governing surface melt are fairly well understood the pathways of the meltwater from its origin to the moment it leaves a glacier system remain enigmatic it is not even guaranteed that meltwater leaves a glacier or ice sheet on greenland for example only slightly more than 50 of the meltwater runs off the remainder mostly refreezes within the so called firn cover of the ice sheet this ebook contains 11 studies which tackle the challenge of understanding meltwater retention in snow and firn from various angles the studies focus both on mountain glaciers and on the greenland ice sheet and address challenges such as measuring firn properties quantifying their influence on meltwater retention modelling firn processes and meltwater refreezing as well as unravelling the mechanisms within the recently discovered greenland firn aquifers

the 5 year circum arctic lithosphere evolution cale program developed new constraints on the tectonic history of the central amerasia basin of the

arctic ocean this volume is the final synthesis of the cale program which brought together an international team of scientists to develop integrated multi disciplinary understanding of the region this approach based on the integration of much new geological and geophysical data from onshore and offshore is necessary to advance our understanding of this basin regional onshore to offshore transects are central to the 18 papers in this volume the diverse science supporting these crust to mantle regional transects includes structural geochronological isotopic potential fields and seismic reflection and refraction data four chapters present circum arctic investigations by the regional cale teams the final chapter addresses pan arctic themes this unique collaboration relying on new data and new syntheses of existing data sheds new light on the history of the arctic ocean

what is the important geologic information recorded in thrust belts and foreland basins tbfb on the evolution of orogens how do they transcript the coupled influence of deep and surficial geological processes is it still worth looking for hydrocarbons in foothills areas these and other questions are addressed in the volume edited by lacombe lavé roure and vergés which constitutes the proceedings of the first meeting of the new ilp task force on sedimentary basins held in december 2005 at the institut français du pétrole on behalf of the société géologique de france and the sociedad geologica de españa this volumes spans a timely bridge between recent advances in the understanding of surface processes field investigations high resolution imagery analogue numerical modelling and hydrocarbon exploration in tbfb with 25 thematic papers including well documented regional case studies it provides a milestone publication as a new in depth examination of tbfb

wave equation based velocity estimation is a set of powerful techniques for robust velocity model building for complex subsurface regions in which ray based methods are usually ineffective or even unsuccessful however simply switching from ray based tomography methods to wave equation based ones does not fully solve the problem in the area of wave equation migration velocity analysis wemva although some promising results have been shown several issues are still not well solved in today s wemva methods preventing them from becoming the industry standard specifically the main issues include 1 severe nonlinearity which causes the cycle skipping problem under large velocity error and 2 imprecise objective functions which wrongly penalizes residuals that are not caused by velocity error but other factors such as uneven subsurface illumination and incomplete acquisition geometry in this dissertation i address these issues by developing a new wemva method that uses the residual moveout rmo information of the angle domain common image gathers adcig to quantify the velocity model error in this rmo based wemva approach i combine the strengths of the wave equation and the ray based tomography by replacing the ray based tomographic operator with a wave equation based one while keeping the conventional ray based tomography workflow in contrast to other wemva methods that build their objective functions directly based on the common image gather amplitudes this method defines a purely kinematics based objective function that links to the velocity model through an residual moveout rmo parameter since the rmo parameter scales almost linearly with the velocity error this approach greatly reduces the risk of cycle skipping in the absence of low frequency data moreover focusing on the gather kinematics makes this method insensitive to spatial and angular variations of the gather amplitudes thus leads to high quality model gradients in addition this method does not require explicit picking of the

moveout parameters because it uses the derivative over the velocity scanning semblances to calculate the moveout perturbation with promising results my 2 d examples demonstrate that this rmo based wemva method is very robust against cycle skipping can effectively flatten the angle gathers and does not require moveout parameters picking furthermore i extend the rmo based wemva method to the 3 d case to deal with multiple azimuths 3 d adcig i augment my method s formulation by assign ing independent moveout parameters to each azimuth a simple synthetic example verifies that the 3 d extension of the rmo based wemva is able to invert simultaneously velocity information from multiple azimuths finally i apply my rmo based wemva to a 3 d wats wide azimuth towed streamers field dataset from gom gulf of mexico to make applying wemva methods to this large industrial scale dataset computationally affordable on the academic computing resources i have in the school of earth energy and environmental sciences i adopt a target oriented in version approach that concentrates on a relatively small target area of interest inside the full physical domain of the dataset the target oriented rmo based wemva inversion of this field dataset yields geophysically more consistent models the inver sion results show convincing imaging improvements and enhancements in the flatness of the 3 d adcig universally across the target domain and all azimuths

the near surface environment is often the source of the most severe lateral velocity variations present in the seismic section near surface lateral velocity variations distort the traveltimes of deeper events and are the most serious limitation in achieving accurate structural maps this work discusses the development of a near surface velocity model for a shallow marine data set the near surface model consists of three components the first is a model of the laterally variable seafloor depth and topography below the seafloor the model consists of the compressional wave velocity as a function of depth which reaches a maximum depth of approximately 500 meters the presence of vertical and lateral velocity gradients is recognized embedded within this slowly varying background velocity field are a number of local lens like velocity anomalies the lens anomalies represent the major lateral velocity variations present in the near surface autocorrelograms of the deeper pre stack data are used to obtain the seafloor model the period of the first water layer reverberation is used to estimate the water depth these data are enhanced by a deconvolution algorithm which improves the agreement at the line intersections measured first arrival times from the pre stack data are used to develop the subseafloor velocity model a multichannel filter algorithm is devised to estimate the traveltime deviations produced by the lens anomalies and the common shot statics these traveltime deviations are the higher spatial frequency components of the first arrival times and are produced by the higher spatial frequency components of the velocity model the output from the algorithm consists of a sixteen layer traveltime velocity perturbation model the estimates of the lens anomaly and shot static produced traveltime deviations are subtracted from the first arrival times to isolate the slowly varying background components these data are then inverted using the generalized linear inversion and tausum algorithms to obtain the laterally varying background velocity model

list of members in each volume

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