



Seismic Filtering

J.K. Costain, C. Coruh



Seismic Filtering:

Seismic Filtering Institut français du pétrole, 1971 Sponsored by the French Petroleum Institute and of value to all seismic data processors this tutorial symposium on seismic filtering contains seven chapters each by a different author Topics covered include introductions to 1D and 2D spectra the FPI s delay line filter optical correlation inverse filtering of plane waves marine analog filtering and seismic emission by vibrators *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 **Introduction to Digital Filtering in Geophysics** O. Kulhánek, 2012-12-02 Introduction to Digital Filtering in Geophysics Filtrage en Sismique , **Spectral Analysis and Filter Theory in Applied Geophysics** Burkhard Buttkus, 2012-12-06 This book is intended to be an introduction to the fundamentals and methods of spectral analysis and filter theory and their applications in geophysics The principles and theoretical basis of the various methods are described their efficiency and effectiveness evaluated and instructions provided for their practical application Besides the conventional methods newer methods are discussed such as the spectral analysis of random processes by fitting models to the observed data maximum entropy spectral analysis and maximum likelihood spectral analysis the Wiener and Kalman filtering methods homomorphic deconvolution and adaptive methods for nonstationary processes Multidimensional spectral analysis and filtering as well as multichannel filters are given extensive treatment The book provides a survey of the state of the art of spectral analysis and filter theory The importance and possibilities of spectral analysis and filter theory in geophysics for data acquisition processing and evaluation are illustrated with practical examples from various fields of applied geophysics Although this book was planned primarily as a textbook for a course on the analysis of geophysical time series it may also be of interest to scientists and engineers who process other digital data It provides a comprehensive discussion of the theoretical fundamentals and a compilation of the extensive literature on the subject I hope that I have succeeded in presenting the various

principles and methods of time series analysis comprehensively and without error Comments on errors or suggestions for improvements are welcome A Petroleum Geologist's Guide to Seismic Reflection William Ashcroft, 2011-05-06 This book is written for advanced earth science students geologists petroleum engineers and others who want to get quickly up to speed on the interpretation of reflection seismic data It is a development of material given to students on the MSc course in Petroleum Geology at Aberdeen University and takes the form of a course manual rather than a systematic textbook It can be used as a self contained course for individual study or as the basis for a class programme The book clarifies those aspects of the subject that students tend to find difficult and provides insights through practical tutorials which aim to reinforce and deepen understanding of key topics and provide the reader with a measure of feedback on progress Some tutorials may only involve drawing simple diagrams but many are computer aided PC based with graphics output to give insight into key steps in seismic data processing or into the seismic response of some common geological scenarios Part I of the book covers basic ideas and it ends with two tutorials in 2 D structural interpretation Part II concentrates on the current seismic reflection contribution to reservoir studies based on 3 D data **Seismic Attributes as the Framework for Data Integration**

Throughout the Oilfield Life Cycle Kurt J. Marfurt, 2018-01-31 Useful attributes capture and quantify key components of the seismic amplitude and texture for subsequent integration with well log microseismic and production data through either interactive visualization or machine learning Although both approaches can accelerate and facilitate the interpretation process they can by no means replace the interpreter Interpreter grayware includes the incorporation and validation of depositional diagenetic and tectonic deformation models the integration of rock physics systematics and the recognition of unanticipated opportunities and hazards This book is written to accompany and complement the 2018 SEG Distinguished Instructor Short Course that provides a rapid overview of how 3D seismic attributes provide a framework for data integration over the life of the oil and gas field Key concepts are illustrated by example showing modern workflows based on interactive interpretation and display as well as those aided by machine learning **Advances of New Technologies in Seismic**

Exploration Shaoping Lu, Sanyi Yuan, Lingyun Qiu, Xiang Li, Tie Zhong, Xintong Dong, Peng Guo, 2025-10-01 In the past few decades the geophysics community has proposed a large number of new technologies for seismic exploration to meet the needs of high resolution subsurface imaging These new technologies have made great contributions to advances in seismic exploration and structural geology For instance the appearance of distributed optical fiber acoustic sensing DAS makes it possible to acquire seismic data with high spatial resolution at low cost Advances have been made in full waveform inversion FWI and it is now considered the most robust approach for the reconstruction of subsurface velocity models Multiples which were originally regarded as a common noise are now applied to seismic imaging and accordingly provide extra illumination and least square migration LSM greatly improves illumination and resolution of seismic imaging Deep learning especially the convolutional neural network CNN has shown remarkable performance in seismic noise attenuation interpolation velocity

model reconstruction arrival time picking and interpretation Although these new technologies have solved certain real world geophysical issues they still have the following limitations Firstly fiber system noise reduces the quality of seismic data received by DAS restricting its further applications Secondly slow convergence rate and huge computational cost are main bottlenecks faced by iterative seismic inversion approaches such as LSM and FWI Moreover the cycle skipping problem is still a challenging issue in FWI Thirdly the weak generalization of trained models needs to be addressed before deep learning can be implemented widely to solve real world problems Forthly the solution of the anisotropic elastic wave equation needs to be improved for its applications in practice Applied Geophysics W. M. Telford, L. P. Geldart, R. E. Sheriff, 1990-10-26

This is the completely revised and updated version of the popular and highly regarded textbook Applied Geophysics It describes the physical methods involved in exploration for hydrocarbons and minerals which include gravity magnetic seismic electrical electromagnetic radioactivity and well logging methods All aspects of these methods are described including basic theory field equipment techniques of data acquisition data processing and interpretation with the objective of locating commercial deposits of minerals oil and gas and determining their extent In the fourteen years or so since the first edition of Applied Geophysics many changes have taken place in this field mainly as the result of new techniques better instrumentation and increased use of computers in the field and in the interpretation of data The authors describe these changes in considerable detail including improved methods of solving the inverse problem specialized seismic methods magnetotellurics as a practical exploration method time domain electromagnetic methods increased use of gamma ray spectrometers and improved well logging methods and interpretation 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 **An**

Introduction to Geophysical Exploration Philip Kearey, Michael Brooks, Ian Hill, 2013-04-16 This new edition of the well

established Kearey and Brooks text is fully updated to reflect the important developments in geophysical methods since the production of the previous edition The broad scope of previous editions is maintained with even greater clarity of explanations from the revised text and extensively revised figures Each of the major geophysical methods is treated systematically developing the theory behind the method and detailing the instrumentation field data acquisition techniques data processing and interpretation methods The practical application of each method to such diverse exploration applications as petroleum groundwater engineering environmental and forensic is shown by case histories The mathematics required in order to understand the text is purposely kept to a minimum so the book is suitable for courses taken in geophysics by all undergraduate students It will also be of use to postgraduate students who might wish to include geophysics in their studies and to all professional geologists who wish to discover the breadth of the subject in connection with their own work

Handbook of Petroleum Geoscience Soumyajit Mukherjee, Swagato Dasgupta, Chandan Majumdar, Subhadip Mandal, Troyee Dasgupta, 2022-10-12 HANDBOOK OF PETROLEUM GEOSCIENCE This reference brings together the latest industrial updates and research advances in regional tectonics and geomechanics Each chapter is based upon an in depth case study from a particular region highlighting core concepts and themes as well as regional variations Key topics discussed in the book are Drilling solutions from the Kutch offshore basin Geophysical studies from a gas field in Bangladesh Exploring Himalayan terrain in India Tectonics and exploration of the Persian Gulf basin Unconventional gas reservoirs in the Bohemian Massif This book is an invaluable industry resource for professionals and academics working in and studying the fields of petroleum geoscience and tectonics

Seismic Filtering Robert Van Nostrand, 1971 A seminar on problems of seismic filtering was given by the French Petroleum Institute during January 11 22 1965 and October 25 November 5 1965 Some twenty five lectures were delivered at this seminar by engineers of the Geophysical Division who also conducted demonstrations on filtering and discussed the results

Digital Filtering Attila Meskó, 1984

Signal Processing for Ge... Jean-Luc Mari, F. Glangeaud, Françoise Coppens,

Moving Boundary Problems in Multi-physics Coupling Processes Leilei Chen, Pei Li, Elena Atroshchenko, 2023-07-19

Seismoelectric Exploration Niels Grobbe, André Revil, Zhenya Zhu, Evert Slob, 2020-10-08 Seismoelectric coupling and its current and potential future applications The seismoelectric method the naturally occurring coupling of seismic waves to electromagnetic fields can provide insight into important properties of porous media With a variety of potential environmental and engineering uses as well as larger scale applications such as earthquake detection and oil and gas exploration it offers a number of advantages over conventional geoEdit HTML Source physical methods Seismoelectric Exploration Theory Experiments and Applications explores the coupling between poroelastic and electromagnetic disturbances discussing laboratory experiments numerical modeling techniques recent theoretical developments and field studies Volume highlights include Physics of the seismoelectric effect at the microscale Governing equations describing coupled seismo electromagnetic fields Examples of successful seismoelectric

field experiments in different geological settings Current and potential applications of seismoelectric coupling Noise removal techniques for seismoelectric field measurements The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals

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

Electronics, Communications and Networks IV Amir Hussain, Mirjana Ivanovic, 2015-07-01 The 4th International Conference on Electronic Communications and Networks CECNet2014 inherits the fruitfulness of the past three conferences and lays a foundation for the forthcoming next year in Shanghai CECNet2014 was hosted by Hubei University of Science and Technology China with the main objective of providing a comprehensive global forum for experts and participants from academia to exchange ideas and presenting results of ongoing research in the most state of the art areas of Consumer Electronics Technology Communication Engineering and Technology Wireless Communications Engineering and Technology and Computer Engineering and Technology In this event 13 famous scholars and Engineers have delivered the keynote speeches on their latest research including Prof Vijaykrishnan Narayanan a Fellow of the Institute of Electrical and Electronics Engineers Prof Han Chieh Chao the Director of the Computer Center for Ministry of Education Taiwan from September 2008 to July 2010 Prof Borko Furht the founder of the Journal of Multimedia Tools and Applications Prof Kevin Deng who served as Acting Director of Hong Kong APAS R D Center in 2010 and Prof Minh Jo the Professor of Department of Computer and Information Science Korea University

Nuclear Science Abstracts, 1976

Enjoying the Song of Phrase: An Mental Symphony within **Seismic Filtering**

In a global taken by monitors and the ceaseless chatter of immediate communication, the melodic elegance and psychological symphony created by the published term usually diminish into the backdrop, eclipsed by the persistent sound and disturbances that permeate our lives. However, set within the pages of **Seismic Filtering** an enchanting literary treasure full of fresh feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, this fascinating masterpiece conducts readers on a psychological trip, skillfully unraveling the concealed songs and profound influence resonating within each carefully constructed phrase. Within the depths with this poignant evaluation, we can examine the book is central harmonies, analyze its enthralling writing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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Seismic Filtering Introduction

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