Seismic Reflection Processing With Special Refere

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The Analysis of Nuclear Materials and Their Environments - Claude André Degueldre 2017-10-11
This book provides an overview of passive and interactive analytical techniques for nuclear materials. The book aims to update readers on new techniques available and provide an introduction for those who are new to the topic or are looking to move into actinides and nuclear materials science. The characterization of actinide species and radioactive materials is vital for understanding how these elements and radioactive isotopes are formed and

behave and how these materials can be improved. The analysis of the actinides or radioactive materials goes beyond spent fuel science to the applicable complete fuel cycle and including analysis of reactor materials.

Seismic Data Analysis - Özdoğan Yilmaz 2001

Expanding the author's original work on processing to include inversion and interpretation, and including developments in all aspects of conventional processing, this two-volume set is a comprehensive and complete coverage of the modern trends in the seismic industry - from time to depth, from 3D to 4D, from 4D to 4C, and from isotropy to anisotropy.

Illustrated Seismic Processing, Volume 2: Preimaging - Stephen Hill 2020-12-01

Provides a foundation for understanding the fascinating field of seismic processing, addressing that portion which precedes migration. Written for the non-expert, this volume reveals the limitations and potential pitfalls of seismic data, explains seismic processing operations as a series of solutions to problems, and more.

The British National Bibliography - Arthur James Wells 2004

World Coal - 1983

Vibroseis - Robert L. Geyer 1989

Modern Singular Spectral-Based Denoising and Filtering Techniques for 2D and 3D Reflection Seismic Data - R. K. Tiwari 2020-03-25

This book discusses the latest advances in singular spectrum-based algorithms for seismic data processing, providing an update on recent developments in this field. Over the past few decades, researchers have extensively studied the application of the singular spectrum-based time and frequency domain eigen image methods, singular spectrum analysis (SSA) and multichannel SSA for various geophysical data. This book

addresses seismic reflection signals, which represent the amalgamated signals of several unwanted signals/noises, such as ground roll, diffractions etc. Decomposition of such non-stationary and erratic field data is one of the multifaceted tasks in seismic data processing. This volume also includes comprehensive methodological and parametric descriptions, testing on appropriately generated synthetic data, as well as comparisons between time and frequency domain algorithms and their applications to the field data on 1D, 2D, 3D and 4D data sets. Lastly, it features an exclusive chapter with MATLAB coding for SSA.

Unlocking the Stratigraphical Record - Peter Doyle 1998-07
Stratigraphy is the key to understanding the Earth, its materials, structure, and past life. By the authors of "The Key to Earth History" (1994), this book explores the advanced tools with which to order and interpret the stratigraphical record.

Geophysical Prospecting - 1956-03

Petroleum Abstracts - 1995

Geohazards in Indonesia - P.R. Cummins 2017-10-25
With dense urban populations located in one of the most active tectonic belts in the world, Indonesia is a hotspot for natural hazard risk. This volume documents some of the recent advances made by Earth scientists that contribute towards a better understanding of the geological hazards in the region.

Geophysical Abstracts - Geological Survey (U.S.) 1968

Seismic Reflection Processing - S.K. Upadhyay 2013-03-09
Seismic Reflection Processing coherently presents the physical concepts, mathematical details and methodology for optimizing results of reservoir modelling, under conditions of isotropy and anisotropy. The most common form of anisotropy - transverse isotropy - is dealt with in detail. Besides,

practical aspects in reservoir engineering - such as interval isotropic or anisotropic properties of layered media; identifying lithology, pore-fluid types and saturation; and determining crack/fracture-orientations and density - form the core of discussions. This book incorporates significant new developments in isotropic and anisotropic reflection processing, while organizing them to improve the interpretation of seismic reflection data and optimizing the modeling of hydrocarbon reservoirs. It is written primarily as a reference and tutorial for graduate/postgraduate students and research workers in geophysics.

Seismic Exploration Methods - Ray L. Sengbush 2012-12-06

This book describes the seismic methods used in geophys ical exploration for oil and gas in a comprehensive, non rigorous, mathematical manner. I have used it and its predecessors as a manual for short courses in seismic methods, and it has been extensively revised time and again to include the latest advances in our truly remark able science. I once called it, "Advanced Seismic Inter pretation," but the geophysicists who attended the courses always wondered when I was going to start dis cussing interpretation. They discovered at the end that I never did discuss interpretation as they knew it. No men tion was made of reflection picking, posting times, map ping, contouring, and things they already knew perfectly well. Instead, I discussed Fourier transforms, sampling theory, impulse responses, distortion operators, Wiener filters, noise in f-k space, velocity spectra, wave-equation migration, and direct detection of hydrocarbons as each of these topics appeared on the seismic scene. I wanted the geophysicists to think beyond the routine ofinterpre tation, to develop a better understanding of why seismic sections look as they do, to have a better feel for what digital processing is doing, for good or evil, to the seismic data. I attempted to stretch

their minds. Whitehead said it best: "A mind once stretched by a new idea can never shrink to its former dimension. " May this book be a suc cessful mind-stretcher. R. L.

Workshop on Geological Interpretation of Geophysical Data - 1981

Geophysical Abstracts - 1968-12

Seismic Exploration - H.N. Al-Sadi 2013-11-22

Library of Congress Subject Headings - Library of Congress 2013

Geophysics Today - Editors of Geophysics 2010

Presents a collection of papers which appear in the September-October 2010 Geophysics special section, written by recognised experts in various areas of exploration geophysics, plus an additional group of papers drawn from Geophysics which address areas beyond those invited articles. The result is a snapshot of the state-of-the-art in the field.

Practical Seismic Data Analysis - Hua-Wei Zhou 2014-01-23

This modern introduction to seismic data processing in both exploration and global geophysics demonstrates practical applications through real data and tutorial examples. The underlying physics and mathematics of the various seismic analysis methods are presented, giving students an appreciation of their limitations and potential for creating models of the sub-surface. Designed for a one-semester course, this textbook discusses key techniques within the context of the world's ever increasing need for petroleum and mineral resources - equipping upper undergraduate and graduate students with the tools they need for a career in industry. Examples presented throughout the text allow students to compare different methods and can be demonstrated using the instructor's software of choice. Exercises at the end of sections

enable students to check their understanding and put the theory into practice and are complemented by solutions for instructors and additional case study examples online to complete the learning package.

Seismic Reflection Processing - S.K. Upadhyay 2004-07-19

The author coherently presents the physical concepts, mathematical details and methodology for optimizing results of reservoir modeling, under conditions of isotropy and anisotropy. The most common form of anisotropy – the transverse isotropy, is dealt with in detail. Besides, practical aspects in reservoir engineering – such as interval isotropic or anisotropic properties of layered media; identifying lithology, pore-fluid types and saturation; and determining crack/fracture-orientations and density - form the core of discussions. This book incorporates significant new developments in isotropic and anisotropic reflection processing, while organizing them to improve the interpretation of seismic reflection data and optimizing the modeling of hydrocarbon reservoirs. The text contains exercises and problems, and solutions are provided for the exercises. This book is written primarily for graduate/postgraduate students and research workers in geophysics.

New Publications of the U.S. Geological Survey - 1984

Encyclopedia of Solid Earth Geophysics - D.E. James 1989-11-30

Consisting of more than 150 articles written by leading experts, this authoritative reference encompasses the entire field of solid-earth geophysics. It describes in detail the state of current knowledge, including advanced instrumentation and techniques, and focuses on important areas of exploration geophysics. It also offers clear and complete coverage of seismology, geodesy, gravimetry, magnetotellurics and related areas in the adjacent disciplines of physics,

geology, oceanography and space science.

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.

New Publications of the Geological Survey - Geological Survey (U.S.) 1984

Subsurface Characterization and Monitoring Techniques - J. Russell Boulding 1996-07

Provides information on where to go to find detailed guidance on how to use these

techniques. Covers: remote sensing & surface geophysical methods; drilling & solids sampling methods; geophysical logging of boreholes; aquifer test methods; ground water sampling methods; Vadose Zone (VZ) hydrologic properties: water state, infiltration, conductivity, & flux; VZ water budget characterization methods; VZ soil-solute/gas sampling & monitoring methods; & chemical field screening & analytical methods. Charts, tables, graphs & drawings.
Physical Applications of Stationary Time-series with Special Reference to Digital Data Processing of Seismic Signals - Enders A. Robinson 1980

Cumulative Index Geophysics, Journal of the Society of Exploration Geophysicists (1936-1988 Inclusive) ; Early Geophysical Papers ; Geophysics, the Leading Edge of Exploration (selected Papers, 1982-88 Inclusive) ... - William J. Zwart 1990

New Achievements in Geoscience - Hwee-San Lim 2012-03-23
New Achievements in Geoscience is a comprehensive, up-to-date resource for academic researchers in geophysics, environmental science, earth science, natural resource managements and their related support fields. This book attempts to highlight issues dealing with geophysical and earth sciences. It describes the research carried out by world-class scientists in the fields of geoscience. The content of the book includes selected chapters covering seismic interpretation, potential field data interpretation and also several chapters on earth science.

Digital Imaging and Deconvolution - Enders A. Robinson 2008
Covering ideas and methods while concentrating on fundamentals, this book includes wave motion; digital imaging; digital filtering; visualization aspects of the

seismic reflection method; sampling theory; the frequency spectrum; synthetic seismograms; wavelet processing; deconvolution; seismic attributes; phase rotation; and seismic attenuation.

Acquisition and Processing of Marine Seismic Data - Derman Dondurur 2018-03-09

Acquisition and Processing of Marine Seismic Data demonstrates the main principles, required equipment, and suitable selection of parameters in 2D/3D marine seismic data acquisition, as well as theoretical principles of 2D marine seismic data processing and their practical implications. Featuring detailed datasets and examples, the book helps to relate theoretical background to real seismic data. This reference also contains important QC analysis methods and results both for data acquisition and marine seismic data processing. Acquisition and Processing of Marine Seismic Data is a valuable tool for researchers and students in geophysics, marine seismics, and seismic data, as well as for oil and gas exploration. Contains simple step-by-step diagrams of the methodology used in the processing of seismic data to demonstrate the theory behind the applications Combines theory and practice, including extensive noise, QC, and velocity analyses, as well as examples for beginners in the seismic operations market Includes simple illustrations to provide to the audience an easy understanding of the theoretical background Contains enhanced field data examples and applications

Energy Research Abstracts - 1978

Semiannual, with semiannual and annual indexes. References to all scientific and technical literature coming from DOE, its laboratories, energy centers, and contractors. Includes all works deriving from DOE, other related government-sponsored information, and foreign nonnuclear information. Arranged under 39 categories, e.g., Biomedical

sciences, basic studies; Biomedical sciences, applied studies; Health and safety; and Fusion energy. Entry gives bibliographical information and abstract. Corporate, author, subject, report number indexes.

Seismic Studies in Physical Modeling - John A. McDonald 1983

Petroleum Abstracts. Literature and Patents - 1990

The Directory of Graduate Studies - 1999

The BIRPS Atlas - Simon L. Klemperer 1991

The BIRPS Atlas presents together for the first time the deep seismic reflection data collected around the British Isles by the BIRPS Group (BIRPS--British Institutions Reflection Profiling Syndicate). The boxed set of 100 seismic profiles provides a detailed image of the deep structure of the continental shelf of northwest Europe, crossing all of the major geological features off the shores of the British Isles. The BIRPS data provide some of the clearest seismic images of the deep continental crust and mantle available worldwide. Each profile is separately displayed at a scale of 1:200 000, so that the majority are a handy letter size that allows easy interpretation and comparison of seismic data at the desk-top. The accompanying text is bound in a 128-page book that provides a summary of the data acquisition and processing parameters, a brief guide to interpretation of seismic data and concisely describes the major features revealed by the seismic profiles. References to key publications are provided for further reading.

Applied Mineral Exploration with Special Reference to Uranium - Robert V. Bailey 1977

Acoustic Waves - Don Dissanayake 2010-09-28

SAW devices are widely used in multitude of device concepts mainly in MEMS and communication electronics. As such, SAW based micro

sensors, actuators and communication electronic devices are well known applications of SAW technology. For example, SAW based passive micro sensors are capable of measuring physical properties such as temperature, pressure, variation in chemical properties, and SAW based communication devices perform a range of signal processing functions, such as delay lines, filters, resonators, pulse compressors, and convolvers. In recent decades, SAW based low-powered actuators and microfluidic devices have significantly added a new dimension to SAW technology. This book consists of 20 exciting chapters composed by researchers and engineers active in the field of SAW technology, biomedical and other related engineering disciplines. The topics range from basic SAW theory, materials and phenomena to advanced applications such as sensors actuators, and communication systems. As such, in addition to theoretical analysis and numerical modelling such as Finite Element Modelling (FEM) and Finite Difference Methods (FDM) of SAW devices, SAW based actuators and micro motors, and SAW based micro sensors are some of the exciting applications presented in this book. This collection of up-to-date information and research outcomes on SAW technology will be of great interest, not only to all those working in SAW based technology, but also to many more who stand to benefit from an insight into the rich opportunities that this technology has to offer, especially to develop advanced, low-powered biomedical implants and passive communication devices.

Encyclopedia of Solid Earth Geophysics - Harsh Gupta 2011-06-29

The past few decades have witnessed the growth of the Earth Sciences in the pursuit of knowledge and understanding of the planet that we live on. This development addresses the challenging endeavor to

enrich human lives with the bounties of Nature as well as to preserve the planet for the generations to come. Solid Earth Geophysics aspires to define and quantify the internal structure and processes of the Earth in terms of the principles of physics and forms the intrinsic framework, which other allied disciplines utilize for more specific investigations. The first edition of the Encyclopedia of Solid Earth Geophysics was published in 1989 by Van Nostrand Reinhold publishing company. More than two decades later, this new volume, edited by Prof. Harsh K. Gupta, represents a thoroughly revised and expanded reference work. It brings together more than 200 articles covering established and new concepts of Geophysics across the various sub-disciplines such as Gravity, Geodesy, Geomagnetism, Seismology, Seismics, Deep Earth Processes, Plate Tectonics, Thermal Domains, Computational Methods, etc. in a systematic and consistent format and standard. It is an authoritative and current reference source with extraordinary width of scope. It draws its unique strength from the expert contributions of editors and authors across the globe. It is designed to serve as a valuable and cherished source of information for current and future generations of professionals.

Marine Geological Surveying and Sampling - E.A. Hailwood 2012-12-06

This collection of papers originates from a meeting are in current use on board UK research vessels. organized in May 1988 at the Geological Society, Marine geological exploration requires information under three further headings: (i) the "shape" of the London, under the auspices of its Marine Studies Group. The meeting was concerned with reviewing sea floor, (ii) the nature of the rocks and sediments the present state-of-the-art of marine geological and which lie at its surface, and (iii) the nature of deeper geophysical

sampling and surveying techniques. structures. Studies of the shape of the sea floor The pace of scientific exploration of the ocean (bathymetry) are based primarily on echo sounder basins has increased dramatically over the past few and side-scan sonar surveying. Technology in this decades in response to interest in the global tectonic field has seen major advances over the past two processes which control their long-term evolution decades, with the development of new ceramic ma and the regional and local sedimentary and tectonic terials to provide more efficient and powerful trans ducers, the increasing use of digital data processing processes which shape them, as well as more practi cal questions such as the nature and extent of off techniques to improve the quality of the signal from shore mineral resources, problems of waste disposal the sea floor, and the introduction of new design at sea and the response of sea level to global climatic concepts to provide higher resolution records.