

# Seismic Noise Attenuation (Handbook of Geophysical Exploration Seismic Exploration)

Kanasewich, E. R.

Note: This is not the actual book cover

# Seismic Noise Attenuation Seismic Exploration Volume 7

**Xiang Xie**



## **Seismic Noise Attenuation Seismic Exploration Volume 7:**

**Seismic Noise Attenuation** E. R. Kanasewich, 1990 This volume attempts to examine the sequence of operations required for the extraction of the flow of messages from a background of random noise and unwanted signals The analysis will involve the use of frontier integrals autocorrelation cross correlation power spectral studies and convolution or filtering Attention will be made to the definition of signal and noise and how these may change under different processing methods

**Seismic Coal Exploration** L. Dresen, H. Rüter, 2013-10-22 The efficient mining of hard coal in deep coal mines using highly mechanized longwall techniques requires information on the geological structure ahead of the operating face Even minor tectonic faults with throws of only a few metres mean a loss in productivity as they present severe working problems for underground mining equipment Because investment costs to install a mechanized face are high insurance in the form of spare capacity by both machine shifts or spare faces is uneconomic Thus to reduce mining costs it is essential to delineate the geology prior to mining Today the only effective geophysical tool to detect and to map minor faults in front of the coal cutter is in seam seismics using channel or so called seam waves The techniques are well established and successfully applied for more than two decades In Seam Seismics covers the entire range of elementary and advanced topics in mathematics physics and data processing of dispersive channel waves The results of analogue and numerical modelling provide a thorough understanding of transmission reflection recording and interpretation of seam waves and coal seam disturbances Fire damp proof instrumentation target orientated underground layouts processing and interpretation of real data impart the state of the art of in seam seismics Selected and well rounded case histories complete the presentation of in seam seismics They can help the mining engineer to come to a decision to plan and to apply in seam seismics in case of underground mining problems A clear text only formulae which are necessary many carefully designed figures an extended list of references and a lucid index make it easy for the reader to get acquainted with seam waves or to promote the technique of in seam seismics

**Foundations of Anisotropy for Exploration Seismics** K. Helbig, 2015-08-11 Over the last few years anisotropy has become a hot topic in seismic exploration and seismology It is now recognised that geological media deviate more or less from isotropy This has consequences for acquisition processing and interpretation of seismic data and also helps determine the cause of anisotropy and adds to our knowledge concerning the structure of the medium at scales beyond the resolution of the seismic method This volume addresses the theoretical foundations of wave propagation in anisotropic media at an easily accessible level The treatment is not restricted to exploration seismology The book commences with fundamental material and covers the description of wave propagation in anisotropic conditions by means of slowness and wave surfaces It continues to explore the theory of elasticity the interaction of elasticity and material symmetry and conditions imposed by the stability of the medium Wave propagation in general anisotropic solids are discussed referring in particular to singular and longitudinal directions Slowness and wave surfaces in transversely isotropic media and in the

planes of symmetry of orthorhombic media is presented and then moves on to wave propagation in orthorhombic media by means of squared slowness surfaces The latter part of the book deals with layer induced anisotropy showing how a particular internal structure of a medium leads to anisotropy and how much of this structure can be recovered by inversion of the modelling algorithm A few fundamental aspects of exploration seismology are also discussed The final chapter discusses how concepts which were developed by Kelvin but only recently understood can be utilised to determine the symmetry class and orientation of an elastic medium

**Handbook of Exploration Geophysics** Paul A. Chapel,1992-01-01 Geophysics the excellent exploration tool which traditionally uses the latest techniques has been in great demand and has assisted by remarkable development of the methods which consist of gravimetry electromagnetics and the most important seismic reflection The book is presented like an encyclopedia One may find an exact definition illustrated with simple sketches precise formulae orders of magnitude data which have so often been missing

Supercomputers in Seismic Exploration E. Eisner,2013-10-22 Provides an authoritative overview of the role which computers now play in the field of seismology and discusses ways in which they can be improved for solving the increasingly complex problems now facing the scientist and engineer Topics covered include typical seismic models computational requirements associated with several standard numerical modelling techniques three dimensional processing migration and forward modelling advances in both hardware and software iterative modelling hypercube supercomputing reservoir simulation using supercomputers algorithms used in modelling and inversion wave equation computations and simulation of seismic waves

*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

*Analysis of Geophysical Potential Fields* P.S. Naidu,M.P. Mathew,1998-06-19 When some useful information is hidden behind a mass of unwanted information we often resort to information processing used in its

broad sense or specifically to signal processing when the useful information is a waveform In geophysical surveys in particular in aeromagnetic and gravity surveys from the measured field it is often difficult to say much about any one specific target unless it is close to the surface and well isolated from the rest The digital signal processing approach would enable us to bring out the underlying model of the source that is the geological structure Some of the tools of dsp such as digital filtering spectrum estimation inversion etc have found extensive applications in aeromagnetic and gravity map analysis There are other emerging applications of dsp in the area of inverse filtering three dimensional visualization etc The purpose of this book is to bring numerous tools of dsp to the geophysical community in particular to those who are entering the geophysical profession Also the practicing geophysicists involved in the aeromagnetic and gravity data analysis using the commercially available software packages will find this book useful in answering their questions on why and how It is hoped that such a background would enable the practising geophysicists to appreciate the prospects and limitations of the dsp in extracting useful information from the potential field maps The topics covered are potential field signals and models digital filtering in two dimensions spectrum estimation and application parameter estimation with error bounds 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 nversion techniques AVO and seismic attributes analysis

**Coding and Decoding: Seismic Data** Luc T. Ikelle, 2010-03-29 Currently the acquisition of seismic surveys is performed as a sequential operation in which shots are computed separately one after the other This approach is similar to that of multiple access technology which is widely used in cellular communications to allow several subscribers to share the same telephone line The cost of performing various shots simultaneously is almost identical to that of one shot thus the savings in time and money expected from using the multishooting approach for computing seismic surveys compared to the current approach are enormous By using this approach the long standing problem of simulating a three dimensional seismic survey can be reduced to a matter of weeks and not years as is currently the case Investigates how to collect stimulate and process multishooting data Addresses the improvements in seismic characterization and resolution one can expect from multishooting data Aims to educate the oil and gas exploration and production business of the benefits of multishooting data and to influence their day to day surveying techniques

*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

**Deep Learning for Seismic Data Enhancement and Representation** Shirui Wang, Wenyi Hu, Xuqing Wu, Jiefu Chen, 2024-12-18 Seismic imaging is a key component of subsurface exploration and it depends on a high quality seismic data acquisition system with effective seismic processing algorithms Seismic data quality concerns various factors such as acquisition design environmental constraints sampling resolution and noises The focus of this book is to investigate efficient seismic data representation and signal enhancement solutions by leveraging the powerful feature engineering capability of deep learning The book delves into seismic data representation and enhancement issues ranging from seismic acquisition design to subsequent quality improvement and compression technologies Given the challenges of

obtaining suitable labeled training datasets for seismic data processing problems we concentrate on exploring deep learning approaches that eliminate the need for labels We combined novel deep learning techniques with conventional seismic data processing methods and construct networks and frameworks tailored for seismic data processing The editors and authors of this book come from both academia and industry with hands on experiences in seismic data processing and imaging

**Modeling The Earth For Oil Exploration** Klaus Helbig, 2015-07-14 This volume presents an overview of the results of a European Union integrated program in which approximately two hundred earth scientists participated drawn from all fields related to exploration Two classes of modeling were addressed geological modeling the relationship between the conditions of sedimentation and the resulting reservoir conditions and wave propagation modeling the investigation of wave propagation through media of various degrees of complexity Wave propagation modeling was carried out either mathematically or physically with the most modern tools An important aspect of the project was the inversion of seismic data that is the determination of the parameters of the medium from observations This problem is closely related to modeling since it is based on the inversion of the mathematical steps and often uses modeling for verification and updating The geological data presents novel concepts with a coverage that is both broad in area and in discipline The geophysical investigations are at the leading edge of current research Although detailed results have been published separately by investigators this volume is the only source of reference which summarises the results but incorporating sufficient detail to enable the reader to follow the scientific reasoning

*Active Geophysical Monitoring*, 2010-03-05 Active geophysical monitoring is an important new method for studying time evolving structures and states in the tectonically active Earth's lithosphere It is based on repeated time lapse observations and interpretation of rock induced changes in geophysical fields periodically excited by controlled sources In this book the results of strategic systematic development and the application of new technologies for active geophysical monitoring are presented The authors demonstrate that active monitoring may drastically change solid Earth geophysics through the acquisition of substantially new information based on high accuracy and real time observations Active monitoring also provides new means for disaster mitigation in conjunction with substantial international and interdisciplinary cooperation Introduction of a new concept Most experienced authors in the field

Comprehensiveness **Computational Neural Networks for Geophysical Data Processing** M.M. Poulton, 2001-06-13 This book was primarily written for an audience that has heard about neural networks or has had some experience with the algorithms but would like to gain a deeper understanding of the fundamental material For those that already have a solid grasp of how to create a neural network application this work can provide a wide range of examples of nuances in network design data set design testing strategy and error analysis Computational rather than artificial modifiers are used for neural networks in this book to make a distinction between networks that are implemented in hardware and those that are implemented in software The term artificial neural network covers any implementation that is inorganic and is the most

general term Computational neural networks are only implemented in software but represent the vast majority of applications While this book cannot provide a blue print for every conceivable geophysics application it does outline a basic approach that has been used successfully

**Wave Fields in Real Media** José M. Carcione, 2007-01-24 Wave Fields in Real Media examines the differences between an ideal and a real description of wave propagation where ideal means an elastic lossless isotropic and single phase medium and real means an anelastic anisotropic and multi phase medium The analysis starts by introducing the relevant stress strain relation This relation and the equations of momentum conservation are combined to give the equation of motion The differential formulation is written in terms of memory variables and Biot's theory is used to describe wave propagation in porous media For each rheology a plane wave analysis is performed in order to understand the physics of wave propagation The book contains a review of the main direct numerical methods for solving the equation of motion in the time and space domains The emphasis is on geophysical applications for seismic exploration but researchers in the fields of earthquake seismology rock acoustics and material science including many branches of acoustics of fluids and solids may also find this text useful Presents the fundamentals of wave propagation in anisotropic anelastic and porous media Contains a new chapter on the analogy between acoustic and electromagnetic waves incorporating the subject of electromagnetic waves Emphasizes geophysics particularly seismic exploration for hydrocarbon reservoirs which is essential for exploration and production of oil

**Fractal Models in Exploration Geophysics** V.P. Dimri, R.P. Srivastava, Nimisha Vedanti, 2012-07-17 Researchers in the field of exploration geophysics have developed new methods for the acquisition processing and interpretation of gravity and magnetic data based on detailed investigations of bore wells around the globe Fractal Models in Exploration Geophysics describes fractal based models for characterizing these complex subsurface geological structures The authors introduce the inverse problem using a fractal approach which they then develop with the implementation of a global optimization algorithm for seismic data very fast simulated annealing VFSA This approach provides high resolution inverse modeling results particularly useful for reservoir characterization Serves as a valuable resource for researchers studying the application of fractals in exploration and for practitioners directly applying field data for geo modeling Discusses the basic principles and practical applications of time lapse seismic reservoir monitoring technology application rapidly advancing topic Provides the fundamentals for those interested in reservoir geophysics and reservoir simulation study Demonstrates an example of reservoir simulation for enhanced oil recovery using CO<sub>2</sub> injection

**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      **Energy Information Guide: General and alternative energy sources** R. David Weber, 1982

**Information-Based Inversion and Processing with Applications** T.J. Ulrych, M.D. Sacchi, 2005-12-16 Information Based Inversion and Processing with Applications examines different classical and modern aspects of geophysical data processing and inversion with emphasis on the processing of seismic records in applied seismology Chapter 1 introduces basic concepts including probability theory expectation operator and ensemble statistics elementary principles of parameter estimation Fourier and z transform essentials and issues of orthogonality In Chapter 2 the linear treatment of time series is provided Particular attention is paid to Wold decomposition theorem and time series models AR MA and ARMA and their connection to seismic data analysis problems Chapter 3 introduces concepts of Information theory and contains a synopsis of those topics that are used throughout the book Examples are entropy conditional entropy Burg's maximum entropy spectral estimator and mutual information Chapter 4 provides a description of inverse problems first from a deterministic point of view then from a probabilistic one Chapter 5 deals with methods to improve the signal to noise ratio of seismic records Concepts from previous chapters are put in practice for designing prediction error filters for noise attenuation and high resolution Radon operators Chapter 6 deals with the topic of deconvolution and the inversion of acoustic impedance The first part discusses band limited extrapolation assuming a known wavelet and considers the issue of wavelet estimation The second part deals with sparse deconvolution using various entropy type norms Finally Chapter 7 introduces recent topics of interest to the authors The emphasis of this book is on applied seismology but researchers in the area of global seismology and geophysical signal processing and inversion will find material that is relevant to the ubiquitous problem of estimating complex models from a limited number of noisy observations Non conventional approaches to data processing and inversion are presented Important problems in the area of seismic resolution enhancement are discussed Contains research material that could inspire graduate students and their supervisors to undertake new research directions in applied seismology and geophysical signal processing      **Seismic Shear Waves** Gerhard Dohr, 1985

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