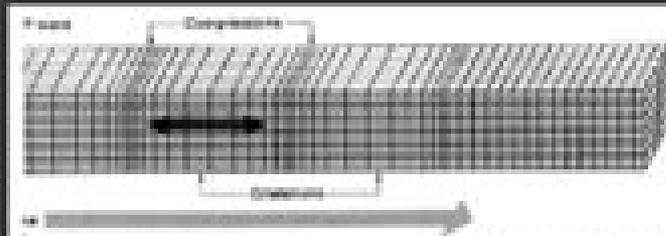


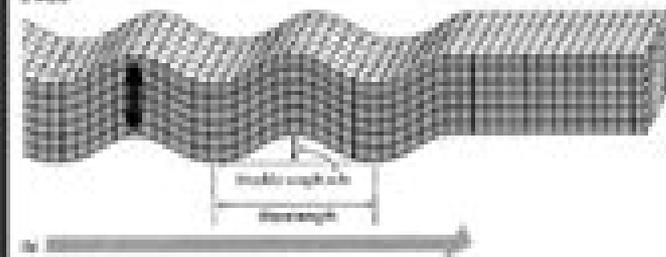
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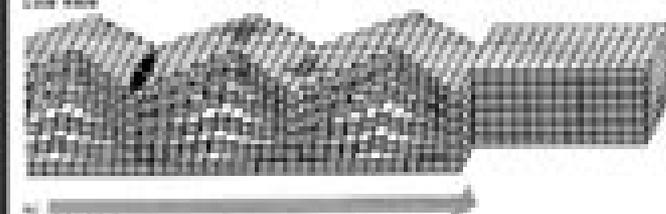
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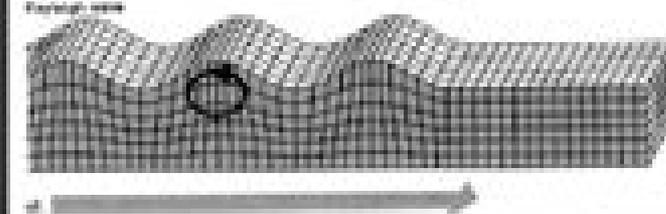
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Love waves



Rayleigh waves



Body waves

Surface waves

# Basic Theory In Reflection Seismology

**Yang Wencai**



## **Basic Theory In Reflection Seismology:**

*Basic Theory of Exploration Seismology* John K. Costain, Cahit Çoruh, 2004 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

**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

**Reflection Seismology** Yang Wencai, 2013-09-18 Authored by a geophysicist with more than 50 years of experience in research and instruction Reflection Seismology Theory Data Processing and Interpretation provides a single source of foundational knowledge in reflection seismology principles and theory Reflection seismology has a broad range of applications and is used primarily by the oil and gas industry to provide high resolution maps and build a coherent geological story from maps of processed seismic reflections Combined with seismic attribute analysis and other exploration geophysics tools it aids geologists and geo engineers in creating geological models of areas of exploration and extraction interest Yet as important as reflection seismology is to the hydrocarbon industry it's difficult to find a single source that synthesizes the topic without having to wade through numerous journal articles from a range of different publishers This book is a one stop source of reflection seismology theory helping scientists navigate through the wealth of new data processing techniques that have emerged in recent years Provides geoscientists and geo engineers with a theoretical framework for navigating the rapid emergence of new data processing techniques Presents a single source of reflection seismology content instead of a scattering of disparate journal articles Features more than 100 figures illustrations and working examples to aid the reader in retaining key concepts Arms geophysicists and geo engineers with a solid foundation in seismic wave equation analysis and interpretation

**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 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 intergrated 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.

**Velocities in Reflection Seismology** Jean-Pierre Cordier, 1985-09-30 Although considerable efforts are now being made to find new sources of energy all the experts are agreed that hydrocarbons will have to provide the greater part of our energy needs for a generation ahead. Exploration for and production of hydrocarbons therefore pose a serious problem for our future as much for the quantitative satisfaction of our requirements as for our search for self sufficiency in energy. As a direct result of

improvements in technology throughout the world geophysics has progressively enlarged its field of influence in the realms of exploration and production But amongst the various geophysical methods available seismic reflection has gradually become accepted as the basic tool of the oil prospector Reflection seismology has reached and consolidated this position because it has shown itself to be capable of adapting to the increasing complexity of the requirements of exploration Initially directed towards geometric mapping of the sub surface it became the means of detection of structural traps in geotectonically quiescent regions and thereafter in increasingly complex surroundings It has enabled us to clothe the structural framework with a lithology initially approximate but becoming more and more precise assisting the explorer to locate stratigraphic traps Further developments enable us under favourable circumstances to estimate the quality of the deposits and to detect the presence of fluids and of their interfaces it then becomes an unrivalled tool for the producer both in the development of deposits and in the application of enhanced recovery methods

**Seabed Reconnaissance and Offshore Soil Mechanics for the Installation of Petroleum Structures** P. Le Tirant,1979

**Handbook of Geophysical Exploration** Enders A. Robinson,1999

*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

**Seismology and Structure of the Earth** Barbara Romanowicz, Adam Dziewonski, 2010-04-20 Treatise on Geophysics Seismology and Structure of the Earth Volume 1 provides a comprehensive review of the state of knowledge on the Earth's structure and earthquakes. It addresses various aspects of structural seismology and its applications to other fields of Earth sciences. The book is organized into four parts. The first part principally covers theoretical developments and seismic data analysis techniques from the end of the nineteenth century until the present with the main emphasis on the development of instrumentation and its deployment. The second part reviews the status of knowledge on the structure of the Earth's shallow layers starting with a global review of the Earth's crustal structure. The third part focuses on the Earth's deep structure divided into its main units: the upper mantle, the transition zone, and upper mantle discontinuities, the D region at the base of the mantle, and the Earth's core. The fourth part comprises two chapters which discuss constraints on Earth structure from fields other than seismology: mineral physics and geodynamics. Self-contained volume starts with an overview of the subject then explores each topic with in-depth detail. Extensive reference lists and cross-references with other volumes to facilitate further research. Full color figures and tables support the text and aid in understanding. Content suited for both the expert and non-expert.

*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.

*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) 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:**

**Dual-sensor technology** Enders A. Robinson, 1999 Hardbound The objective of seismic exploration is to delineate the subsurface structure of the earth A large variety of computer processing methods are available to transform the observed seismic data into a form that is more useful to the seismic interpreter An important subdivision of these methods comes under the heading Seismic Inversion and Deconvolution Most seismic data are recorded either by geophone that measures particle velocity or else by hydrophone that measures pressure A dual sensor incorporates both a geophone and a hydrophone so simultaneous measurements of both particle velocity and pressure are obtained Unprecedented improvements in inversion and deconvolution are made possible through the use of Dual Sensor Technology The purpose of Seismic Inversion and Deconvolution Part B Dual Sensor Technology is to provide the fundamentals of dual sensor technology Previous work together with new results are brought together

**Proceedings of the 18th New Zealand Geothermal Workshop 1996** S F.. Simmons, M. M. Rahman, A. Watson, 1996 *Seismic Coal Exploration: In-seam seismics* L. Dresen, H. Rüter, 1994 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 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 have been successfully applied for more than two decades 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 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 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* Klaus Helbig, 1994 Hardbound 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 genera **Petroleum Abstracts** ,1994 **Bulletin of the Australian Society of Exploration Geophysicists** Australian Society of Exploration Geophysicists,1983 **Bulletin - Australian Society of Exploration Geophysicists** Australian Society of Exploration Geophysicists,1981 *New Technologies in Exploration Geophysics* H. Roice Nelson,1983

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