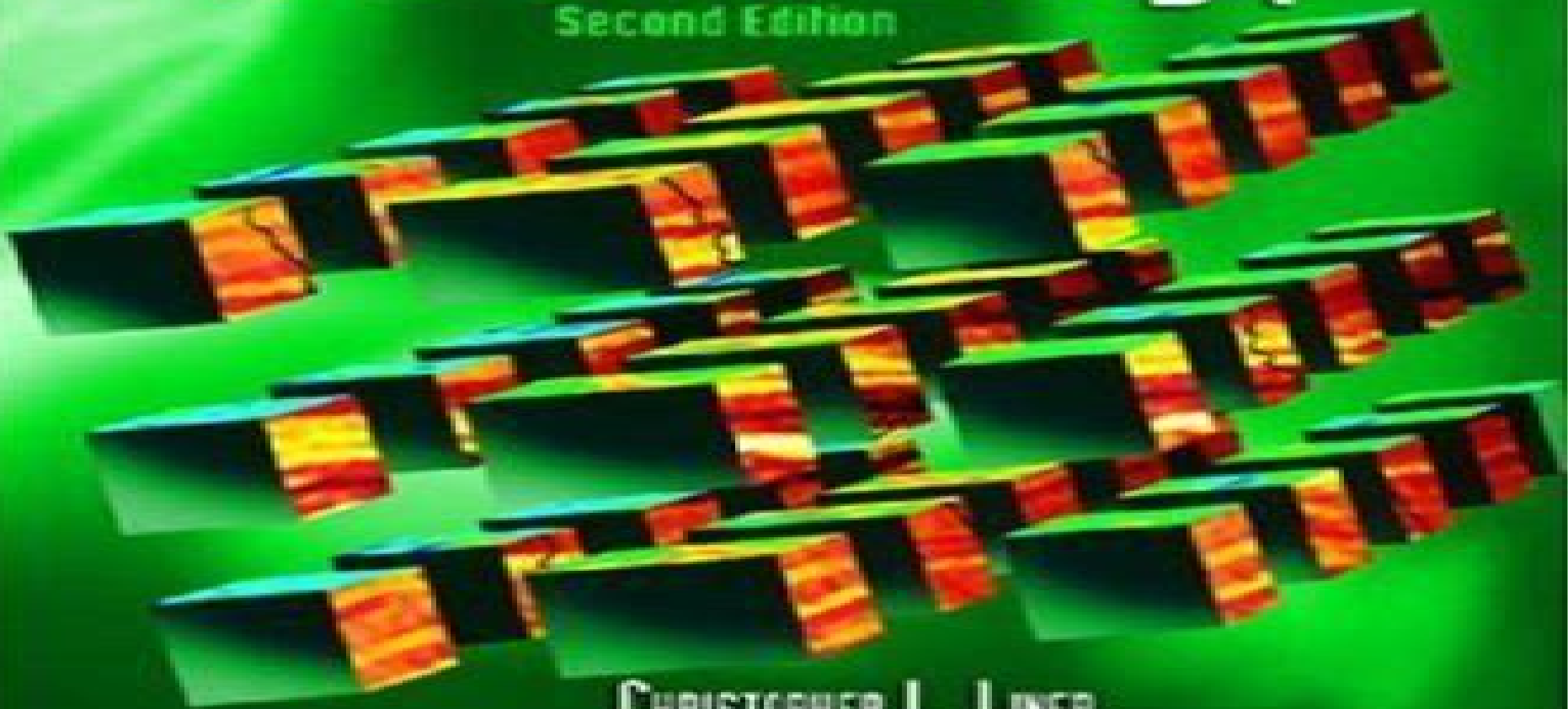


# Elements of 3-D Seismology

Second Edition



CHRISTOPHER L. LINER

# Elements Of 3 D Seismology

**Andreas Cordsen, Mike Galbraith, John  
Peirce**



## Elements Of 3 D Seismology:

*Elements of 3D Seismology* Christopher L. Liner, 2016      **Elements of 3D Seismology, third edition** Christopher L. Liner, 2016-10-15 *Elements of 3D Seismology* third edition is a thorough introduction to the acquisition processing and interpretation of 3D seismic data This third edition is a major update of the second edition Sections dealing with interpretation have been greatly revised in accordance with improved understanding and availability of data and software Practice exercises have been added as well as a 3D seismic survey predesign exercise Discussions include conceptual and historical foundations of modern reflection seismology an overview of seismic wave phenomena in acoustic elastic and porous media acquisition principles for land and marine seismic surveys methods used to create 2D and 3D seismic images from field data concepts of dip moveout prestack migration and depth migration concepts and limitations of 3D seismic interpretation for structure stratigraphy and rock property estimation and the interpretation role of attributes impedance estimation and AVO This book is intended as a general text on reflection seismology including wave propagation data acquisition processing and interpretation and will be of interest to entry level geophysicists experts in related fields geology petroleum engineering and experienced geophysicists in one subfield wishing to learn about another e g interpreters wanting to learn about seismic waves or data acquisition      **Elements of 3-D Seismology** Christopher L. Liner, 1999 Characterizing it as more eclectic than comprehensive more industrial than academic and more chatty than stuffy Liner geosciences U of Tulsa offers a textbook based on his course He introduces seismic concepts for one and two dimensions then discusses three dimensions from perspectives of hi      *Full-3D Seismic Waveform Inversion* Po Chen, En-Jui Lee, 2015-09-10 This book introduces a methodology for solving the seismic inverse problem using purely numerical solutions built on 3D wave equations and which is free of the approximations or simplifications that are common in classical seismic inversion methodologies and therefore applicable to arbitrary 3D geological media and seismic source models Source codes provided allow readers to experiment with the calculations demonstrated and also explore their own applications      **Interpretation of Three-Dimensional Seismic Data, Seventh Edition** Alistair R. Brown, 2011-08-20 Hardcover plus DVD      **3D Seismic Survey Design** Gijs J. O. Vermeer, 2012 Since the first edition of 3D Seismic Survey Design appeared in 2002 seismic data acquisition has seen many changes most of which have been captured in this second edition This book by Gijs Vermeer describes in detail the properties of 3D acquisition geometries and shows how these properties naturally lead to the 3D symmetric sampling approach to 3D survey design Many examples from the literature are used to illustrate good and less good choices of acquisition parameters The link between survey parameters and noise suppression as well as imaging is an intrinsic part of the contents This book should be of great interest to the designer of 3D seismic surveys but also to every geophysicist who uses 3D seismic data to retrieve accurate information on the properties of the subsurface      *Concepts and Applications in 3D Seismic Imaging* Biondo Biondi, 2007 *Concepts and Applications in 3D Seismic Imaging* SEG Distinguished

Instructor Series No 10 provides a broad and intuitive understanding of seismic imaging concepts and methods that enables geoscientists to make appropriate decisions during acquisition processing imaging and interpretation This book first published for use with the SEG EAGE 2007 Distinguished Instructor Short Course also exposes participants to current trends in imaging research and empowers them to adopt new technologies quickly Seismic images are the basis of critical exploration development and production decisions Optimal use of these images requires full understanding of the processes that create them from data acquisition to final migration DISC on DVD 756A is also available *3D Seismic Imaging* Biondi,2006 Accompanying CD ROM includes PDF slides for teaching the material in the book and the C3 narrow azimuth classic data set *Theoretical and Computational Seismology* Jeroen Tromp,2025-07-01 An authoritative self contained reference text on theoretical and computational seismology Over the past several decades computational advances have revolutionized seismology making it possible to simulate seismic wave propagation in complex Earth models and create detailed images of the planet s interior This cutting edge text introduces students and scholars to the fundamentals techniques and applications of this exciting field of research and discovery After establishing a strong foundation in continuum mechanics the book presents the fundamentals of theoretical seismology providing a basis for subsequent forward and inverse modeling grounded in numerical methods and then focuses on computational seismology investigating numerical solutions to seismic wave equations The adjoint state method is covered next along with applications of this technique to waveform inversions across scales after which the book concludes with a set of appendixes that provide a primer to differential geometry and tensor calculus which are used throughout the book to explain the fundamental concepts of deformation strain and stress from both Eulerian and Lagrangian perspectives Including over 150 student tested exercises the book is an essential resource for motivated students and scholars seeking to master the state of the art of theoretical and computational seismology Establishes a strong foundation through a geometric analysis of continuum mechanics Reveals how linearizing the resulting equations of motion enables the simulation of seismic wave propagation across nine decades of frequencies and wavelengths Demonstrates how to leverage the capabilities of simulations to create detailed tomographic images from the information embedded in seismographic recordings Covers diverse application areas including seismology helioseismology underwater acoustics medical imaging and nondestructive testing Features a wealth of exercises with online solutions Includes a comprehensive set of appendixes on differential geometry and tensor calculus An ideal textbook for graduate students studying theoretical seismology computational seismology or optimization and inverse problems An essential reference for researchers and scholars *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 Earths 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

**Theoretical and Computational Acoustics 2005** Dr. Alexandra Tolstoy, Erchang Shang, Yu-Chiung Teng, 2006 This volume represents the latest advances in the field of theoretical and computational acoustics The coverage includes results in the areas of underwater acoustics seismics scattering inversion genetic algorithms reverberation IFEM Radon transforms wavelet statistics PE modeling and Gaussian beams *The Finite-Difference Modelling of Earthquake Motions* Peter Moczo, Jozef Kristek, Martin Gális, 2014-04-24 A systematic tutorial introduction to the finite difference FD numerical modelling technique for professionals academic researchers and graduate students in seismology *3-D Seismic Interpretation* M. Bacon, R. Simm, T. Redshaw, 2003-08-21 Table of contents

**Reservoir Characterization II** Lake, 2012-12-02 Reservoir Characterization II contains the proceedings of the Second International Reservoir Characterization Conference held in Dallas Texas in June 1989 Contributors focus on the characterization of reservoir processes and cover topics ranging from surface roughness in porous media and reservoir characterization at the mesoscopic scale to shale clast heterogeneities and their effect on fluid flow permeability patterns in fluvial sandstones and reservoir management using 3 D seismic data This book is organized into six sections encompassing 43 chapters The first 20 chapters deal with reservoir characterization at the microscopic mesoscopic and macroscopic scales Topics include low contrast resistivity sandstone formations the use of centrifuge and computer tomography to quantify saturation distribution and capillary pressures and cross well seismology as a tool for reservoir geophysics The chapters that follow deal with reservoir characterization at the megascopic scale fractal heterogeneity of clastic reservoirs heterogeneity and effective permeability of porous rocks and drilling fluid design based on reservoir characterization A chapter that outlines a procedure for estimating permeability anisotropy with a minipermeameter concludes the book This book is a valuable resource for students and practitioners of petroleum engineering geology and geological engineering petroleum exploration and geophysics

**Planning Land 3-D Seismic Surveys** Andreas Cordsen, Mike Galbraith, John Peirce, 2000 This book provides readers the tools to begin designing 3D seismic surveys The substantial experiences of the authors in designing and acquiring land 3D seismic surveys make this a

practical and useful book Readers are expected to have a general working knowledge of 2D seismic data acquisition processing and interpretation Some 3D experience is helpful but is not necessary to understand this material Practical exercises are included to facilitate understanding of the subject matter Some geophysicists may want to enhance their knowledge of 3D design by reading papers concerning their particular special interests A reference list and a collection of other recommended reading are included A searchable CD of the entire contents of the book also is included

**The Art and Science of Seismic Interpretation** Christopher L. Liner, T. A. (Mac) McGilvery, 2019-01-14 This book demystifies that art and science of seismic interpretation for those with and without formal geophysical training From geologists to managers and investors The Art and Science of Seismic Interpretation is a guide to what seismic data is how it is interpreted and what it can deliver

**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

*Computational Earthquake Science Part II* Andrea Donnellan, Peter Mora, Mitsuhiro Matsu'ura, Xiang-chu Yin, 2012-12-06 Exciting developments in earthquake science have benefited from new observations improved computational technologies and improved modeling capabilities Designing models of the earthquake generation process is a grand scientific challenge due to the complexity of phenomena and range of scales involved from microscopic to global Such models provide powerful new tools for the study of earthquake precursory phenomena and the earthquake cycle Through workshops collaborations and publications the APEC Cooperation for Earthquake Simulations ACES aims to develop realistic supercomputer simulation models for the complete earthquake generation process thus providing a virtual laboratory to probe earthquake behavior Part II of the book embraces dynamic rupture and wave propagation computational environment and algorithms data assimilation and understanding and applications of models to earthquakes This part also contains articles on the computational approaches and challenges of

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