

1. Record Nr.	UNINA9910254104003321
Autore	Nanda Niranjana C
Titolo	Seismic Data Interpretation and Evaluation for Hydrocarbon Exploration and Production [[electronic resource] ] : A Practitioner's Guide // by Niranjana C. Nanda
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-26491-5
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (230 p.)
Disciplina	622.15
Soggetti	Geophysics Mineral resources Engineering geology Engineering—Geology Foundations Hydraulics Fossil fuels Ocean engineering Computer mathematics Geophysics/Geodesy Mineral Resources Geoengineering, Foundations, Hydraulics Fossil Fuels (incl. Carbon Capture) Offshore Engineering Computational Mathematics and Numerical Analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1. Seismic wave propagation & rock-fluid parameters -- 2. Seismic reflection principles – Basics -- 3. Seismic interpretation methods (2D) -- 4. Tectonics and seismic interpretation -- 5. Seismic stratigraphy and Seismo-tectonics in Petroleum Exploration -- 6. Direct Hydrocarbon Indicators (DHI) -- 7. Bore-hole seismic techniques -- 8. Evaluation of high resolution seismic data (3D & 4D) -- 9. Shear wave

Seismic; AVO & Vp/Vs analysis -- 10. Analyzing seismic attributes -- 11. Seismic modeling & Inversions -- 12. Seismic pitfalls. .

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Sommario/riassunto

This book introduces readers to the field of seismic data interpretation and evaluation, covering themes such as petroleum exploration and high resolution seismic data. It helps geoscientists and engineers who are practitioners in this area to both understand and to avoid the potential pitfalls of interpreting and evaluating such data, especially the over-reliance on sophisticated software packages and workstations alongside a lack of grasp on the elementary principles of geology and geophysics. Chapters elaborate on the necessary principles, from topics like seismic wave propagation and rock-fluid parameters to seismic modeling and inversions, explaining the need to understand geological implications. The difference between interpretation of data and its evaluation is highlighted and the author encourages imaginative, logical and practical application of knowledge. Readers will appreciate the exquisite illustrations included with the accessibly written text, which simplify the process of learning about interpretation of seismic data. This multidisciplinary, integrated and practical approach to data evaluation will prove to be a valuable tool for students and young professionals, especially those connected with oil companies.

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