



Seismic Interpretation of Contractional Fault-Related Folds: An AAPG Seismic Atlas (AAPG Studies in Geology)

John H. Shaw

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This AAPG Seismic Atlas serves as an instructional guide and resource for the interpretation of complex structures imaged in seismic reflection profiles using quantitative fault-related folding theories. The emphasis is on contractional fault-related folds, including fault-bend folds, fault-propagation folds, detachment folds, shear fault-bend folds, imbricate thrust systems, and structural wedges. These types of structures form the majority of the large hydrocarbon traps in both orogenic and passive-margin fold and thrust belts worldwide.

The Atlas is divided into two complimentary parts. The first section illustrates the application of fault-related folding theories to many well-imaged seismic examples by way of step-by-step interpretations and ubiquitous models. A compilation of 25 case studies from petroleum basins around the world comprises the second section of the Atlas.

The volume is intended to assist E&P professionals involved in seismic interpretation for the purposes of trap delineation and reservoir characterization, to aid those who evaluate structural interpretations in order to assign and reduce drilling risks, and to serve as a manual for anyone interested in applying the theories of fault-related folding to seismic interpretation.

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