

# RELATIVE FIDELITY PROCESSING OF SEISMIC DATA

METHODS AND APPLICATIONS

Edited by  
Xiwen Wang et al



石油工业出版社  
PETROLEUM INDUSTRY PRESS

WILEY Blackwell

Xiwen Wang

Relative Fidelity Processing of Seismic Data: Methods and Applications  
(Wiley Series in Petroleum Industry Press)



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This book presents a comprehensive overview of relative fidelity preservation processing methods and their applications within the oil and gas sector. Four key concepts for wide-range of recurrence relative fidelity preservation processing are illustrated through the entire text message. And the impacting factors are also discussed. The methods and concepts of Kirchhoff integral migration, one-method wave equation migration and invert period migration are also launched and illustrated obviously. Current analysis of relative amplitude preservation migration algorithms is released, and the corresponding numerical results are also shown. The study status and development of velocity model building are presented. This includes GPU/CPU powerful calculations and its program to seismic exploration, two-way wave extrapolation operator and boundary conditions, imaging conditions and low frequency noise attenuation, and GPU/CPU program structured RTM imaging algorithms. Migration velocity model building strategies in depth domain for complicated structures are illustrated in this book. RTM (reverse period migration) imaging methods predicated on GPU/CPU systems for complicated structures are represented. Seismic broadband acquisition is the basis for relative fidelity preservation processing and the impact of seismic acquisition on data digesting is also analyzed. The reserve also supplies the reader with many case studies of field seismic data imaging in different kinds of basins to show the methods found in practice. A number of different velocity model building methods are also represented and analyzed.



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