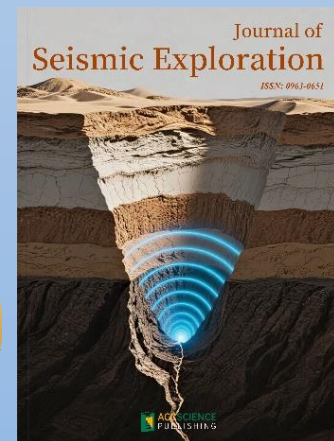


Journal of Seismic Exploration

Seismic Wave Propagation Theories and
Reservoir Characterization Technologies for
Complex Anisotropic Media



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Seismic wave anisotropy is widely spread in Earth's upper crust and notably influences elastic wave behaviors. As a simplified anisotropic system, vertically transverse isotropy (VTI) typically depicts the polar anisotropy of shale layers and thin-bedded formations, which could be highly practical for sedimentary rocks and probably the most extensively studied anisotropic system. When azimuthal anisotropy (often induced by aligned fractures or regional stress) is also present, the coupled anisotropy is more complex with lower symmetries. Given the profound geological background of seismic anisotropy, accurate modeling and treatment of anisotropic wave signatures will contribute to both subsurface imaging and property characterization. This special issue invites cutting-edge researches on seismic anisotropy, including but not limited to rock physics theories, elastic wave propagation mechanisms, data acquisition and processing techniques, reservoir characterization methodologies, and case studies.

Guest Editors

KEYWORDS

- seismic anisotropy
- complex reservoir characterization
- elastic wave propagation
- anisotropic rock physics
- shale reservoir
- fractured reservoir



Feng Zhang

zhangfeng@cup.edu.cn

China University of
Petroleum (Beijing)



Jun Lu

lujun615@163.com

China University of
Geosciences, Beijing



Song Jin

jinsong369@hotmail.com

China University of Geosciences
(Wuhan)



Cong Luo

Lishang0228@163.com

Hohai University



Qizhen Du

multicomponent@163.com

China University of
Petroleum (East China)

Editorial Office:

jse.office@accscience.sg;
AccScience Publishing
9 Raffles Place, Republic
Plaza 1 #06-00,
Singapore 048619

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