

Integration of Geophysical Technologies in the Petroleum Industry

by

Hamish Wilson

Look inside ↴



PDF

DOWNLOAD E-BOOK

Synopsis

The most utilized technique for exploring the Earth's subsurface for petroleum is reflection seismology. However, a sole focus on reflection seismology often misses opportunities to integrate other geophysical techniques such as gravity, magnetic, resistivity, and other seismicity techniques, which have tended to be used in isolation and by specialist teams. There is now growing appreciation that these technologies used in combination with reflection seismology can produce more accurate images of the subsurface. This book describes how these different field techniques can be used individually and in combination with each other and with seismic reflection data. World leading experts present chapters covering different techniques and describe when, where, and how to apply them to improve petroleum exploration and production. It also explores the use of such techniques in monitoring CO₂ storage reservoirs. Including case studies throughout, it will be an invaluable resource for petroleum industry professionals, advanced students, and researchers.

Sort review

Book Description A review of geophysical technologies, how they should be deployed and integrated for improved petroleum exploration and production. --This text refers to the hardcover edition.

About the Author Hamish Wilson started his career with BP before forming his own consulting company focusing on exploration strategy and process. Hamish's key specialism is in helping companies develop and implement exploration led growth strategies. He has worked at senior executive level for most of the world's leading exploration led oil companies. Keith Nunn is a geophysicist with over 40 years of experience in oil and gas exploration. He is an independent consultant at Nunnegeo Consulting Ltd, and has worked for a number of independent oil companies and government oil organisations. He worked for BP for 25 years, mainly in technical leadership roles in seismic processing, analysis and acquisition teams, and finished his career as Distinguished Adviser in Geophysics with responsibility for BP's global seismic activities. Prior to joining BP he was a Lecturer in Geophysics at the University of Birmingham for 10 years. His research at that time included topics from shallow reflection seismology to large scale crustal seismic studies. He organised and participated in several crustal seismic projects in the UK and Europe. He has been involved with exploration and production in most of the major petroleum basins of the world. Matt Luheshi is a geoscientist with over 40 years of experience in oil and gas exploration. He works as an independent consultant and has advised a number of major and independent oil companies as well as government oil organisations. He previously worked at BP where his roles included project management and leadership positions exploring new opportunity access, technical evaluations and technology development. His global experience includes many of the major petroleum basins of the world including the Middle East, North-West Europe, North America, North Africa, South East Asia, and Eastern Siberia. --This

text refers to the hardcover edition.

[Download to continue reading...](#)

What people say about this book

DR KEITH R NUNN, "New Geophysics Textbook. Covers the integration of geophysical technologies across all the exploration to production phases as well as their application in carbon capture and storage."

[DMCA](#)