

Shale Subsurface Science and Engineering: A Comprehensive Guide

Shale, a fine-grained sedimentary rock, has emerged as a significant source of unconventional energy resources, such as natural gas and oil. Understanding the complex geological and engineering challenges associated with shale is crucial for optimizing resource extraction and minimizing environmental impacts.

Introducing Geophysical Monograph 245

Geophysical Monograph 245, "Shale Subsurface Science and Engineering," is a comprehensive scientific reference that provides a deep dive into the latest research and advancements in this field. This volume is a must-have for geologists, petrophysicists, reservoir engineers, and anyone involved in shale resource exploration and development.



Shale: Subsurface Science and Engineering (Geophysical Monograph Series Book 245)

★★★★★ 5 out of 5

Language	: English
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Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 298 pages
Lending	: Enabled



Edited by renowned experts in the field, Dr. Shuheng Wang and Dr. Lihua Tang, Geophysical Monograph 245 features contributions from leading researchers at universities and industry partners worldwide.

Key Topics Covered

- **Geology and Petrophysics:** Comprehensive understanding of shale formation, depositional environments, and mineral composition.
- **Geophysical Methods:** Detailed analysis of seismic, electromagnetic, and other geophysical techniques for shale characterization.
- **Reservoir Characterization:** Advanced methods for estimating shale reservoir properties, including porosity, permeability, and fluid saturation.
- **Hydraulic Fracturing:** In-depth discussion of hydraulic fracturing techniques, including fluid selection, pumping schemes, and fracture geometry optimization.
- **Production Optimization:** Practical guidance on maximizing shale gas and oil production, including well placement, perforation strategies, and production forecasting.
- **Environmental Impacts:** Examination of potential environmental risks associated with shale development, such as water contamination and air pollution.

Benefits of Geophysical Monograph 245

- Provides a comprehensive overview of the latest advancements in shale subsurface science and engineering.

- Written by leading experts in the field, ensuring reliable and authoritative information.
- Covers a wide range of topics, from geology to reservoir engineering to environmental impacts.
- Offers practical insights and best practices for optimizing shale resource extraction.
- Serves as an essential reference for researchers, professionals, and students in the field.

Free Download Your Copy Today

Don't miss out on this invaluable resource for advancing your knowledge of shale subsurface science and engineering. Free Download your copy of Geophysical Monograph 245 today and unlock the secrets of shale.

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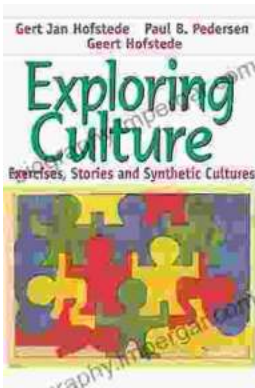
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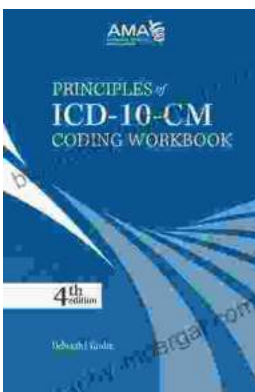


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