

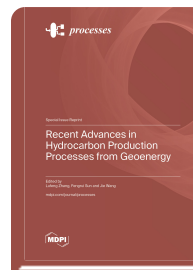
Special Issue Reprint

Recent Advances in Hydrocarbon Production Processes from Geoenergy

www.mdpi.com/books/reprint/11746

Edited by
Lufeng Zhang
Fengrui Sun
Jie Wang

ISBN 978-3-7258-5735-7 (Hardback)
ISBN 978-3-7258-5736-4 (PDF)



This reprint from the Special Issue "Recent Advances in Hydrocarbon Production Processes from Geoenergy" brings together cutting-edge research on the exploration and development of unconventional reservoirs. It covers advanced technologies for geological sweet spot analysis, production enhancement, and long-term stabilization strategies, supported by theoretical modeling, data analysis, and field applications. Key themes include the following:

Advanced Sweet Spot Analysis: Incorporating 3D seismic imaging, reservoir simulation, real-time monitoring, and AI-driven algorithms to improve reservoir characterization and optimize production.

Innovative Hydraulic Fracturing: Evolving from process optimization to mechanistic studies, with emphasis on fracture parameter design and proppant transport to enhance long-term fracture conductivity.

Stabilization and Production Maintenance: Addressing two-phase flow behavior and high-rate water injection in low-permeability reservoirs to sustain formation energy and productivity in mid-to-late field life.

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.