

Special Issue Reprint

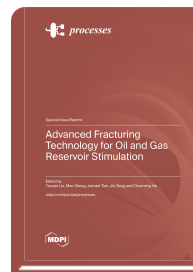
Advanced Fracturing Technology for Oil and Gas Reservoir Stimulation

www.mdpi.com/books/reprint/11622

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ISBN 978-3-7258-5355-7 (Hardback)

ISBN 978-3-7258-5356-4 (PDF)



Fossil energy—coal-bed methane, shale oil, shale gas, and natural gas hydrates—significantly contribute to the world's energy production. This Reprint aims to disseminate the latest research on how advanced fracturing technologies unlock these resources. It covers the characterization of pre-fracture reservoirs, fracture propagation mechanics across diverse geologies, hydraulic–natural fracture interaction, proppant transport and placement optimization, and the design of fracturing fluid systems and injection parameters. The studies herein provide a concise, state-of-the-art resource for researchers, engineers, and industry professionals seeking to maximize recovery from complex reservoirs, serving as a reference for research in related or relevant areas.

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