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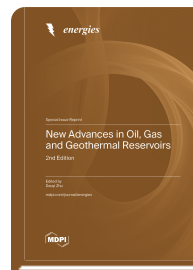
New Advances in Oil, Gas and Geothermal Reservoirs

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ISBN 978-3-7258-5251-2 (Hardback)

ISBN 978-3-7258-5252-9 (PDF)



The exploration and exploitation of geo-energy resources, including oil, gas, and geothermal reservoirs, is experiencing a profound transformation, driven by the implementation of innovative technologies and advanced approaches. This Special Issue assembles cutting-edge research focusing on three major areas: the development of mature and unconventional reservoirs (especially heavy oil), the application of big data and artificial intelligence (AI) in oil and gas fields, and advancements in gas storage technologies. The selected studies combine state-of-the-art numerical modeling, experimental methods, and big data with AI technologies to tackle challenges including optimizing resource extraction from difficult reservoirs, improving operational efficiency through data analysis, and enhancing gas storage safety. This Special Issue provides a comprehensive foundation for future progress in the sustainable and efficient management of geo-energy resources.



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