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Titolo	Challenges and Recent Advances in Sustainable Oil and Gas Recovery and Transportation // edited by Sanket Joshi, Prashant Jadhawar, Asheesh Kumar
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ISBN	9780323993043 0323993044 9780323993050 0323993052
Descrizione fisica	1 online resource (382 pages)
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Nota di contenuto	Part I: Basics and Advancements in Oil Recovery Methane production techniques from methane hydrate reservoirs -- 2. Biosurfactants and their significance in altering reservoir wettability for enhanced oil recovery -- 3. Fluid production from NGH reservoirs: fundamental physics, numerical model, and reservoir simulation Role of nanofluids in chemical enhanced oil recovery Biostimulation in microbial enhanced oil recovery: from laboratory analysis and nutrient formulation to field monitoring Rheological characterization of nanofluids Microbial enhanced oil recovery: application of biosurfactants in the oil and gas industry Simulation and modeling of fractured reservoirs: an overview Synergistic interactions of SmartWater with surfactant and polymer chemicals to lower the rigidity of the crude oil/brine interface for enhanced oil mobilization -- Part II: Basics, advancements, and challenges in transport, underground storage and HSE Application of life cycle assessment on enhanced oil recovery processes Carbon dioxide-induced corrosion in flowlines and tubular: implications, opportunities, and the path ahead for carbon utilization and storage applications Oil field produced water: issues and possible solutions Biological souring and mitigation strategies in oil reservoirs Performance comparison of smart well design for waterflooding

processes Black powder formation in natural gas pipeline networks: associated issues and root cause analysis Opportunities and challenges in aquifer underground natural gas storage with a CO2 cushion.

**Sommario/riassunto**

Challenges and Recent Advances in Sustainable Oil and Gas Recovery and Transportation delivers a critical tool for today's petroleum and reservoir engineers to learn the latest research in EOR and solutions toward more SDG-supported practices. Packed with methods and case studies, the reference starts with the latest advances such as EOR with polymers and EOR with CCS. Advances in shale recovery and methane production are also covered before layering on sustainability methods on critical topics such as oilfield produced water. Supported by a diverse group of contributors, this book gives engineers a go-to source for the future of oil and gas. The oil and gas industry are utilizing enhanced oil recovery (EOR) methods frequently, but the industry is also tasked with making more sustainable decisions in their future operations.

2. Record Nr.	UNINA9910892051003321
Titolo	OECD environmental performance reviews . [...] Slovenia / Organisation for Economic Co-operation and Development
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Descrizione fisica	Online-Ressource
Disciplina	330 333.7
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