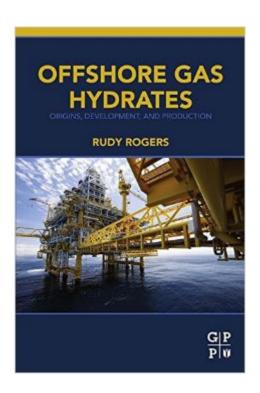
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Offshore Gas Hydrates: Origins, Development, And Production





Synopsis

Gas hydrates collect and store both thermogenic and biogenic methane generated in deep ocean sediments that, over geologic time, forms vast methane repositories. Offshore Gas Hydrates: Origins, Development, and Production presents gas hydrates as an emerging, clean energy source possibly more abundant than all other fossil fuels and especially important for countries geographically and economically restricted from conventional fossil fuel resources. The book explores feasible methods to produce offshore hydrate gas, the means to store and transport the remotely produced gas, new hydrate inhibitors for conventional and hydrate production in ultra-deep waters, instability manifestations of seafloor hydrates, and hydrate roles in complex ecological scenarios. Complementing production and drilling method presentations are computer simulation studies, hydrate field tests, and seismic and logging developments. Offshore Gas Hydrates delivers a well-developed framework for both the oil and gas researcher and corporate engineer to better exploit this future unconventional resource, empowering the oil and gas professional with the latest data and information on sophisticated challenges that offshore hydrates present. Addresses the technical, economic, and environmental problems of producing hydrate gas. Introduces the overlooked and unchartered role of microbes in catalyzing offshore hydrate formations with attendant effects on stability/dissociation. Reviews the latest world-wide field tests, research, and case studies involving seafloor hydrates, inclusive of most known hydrate provinces. Displays two videos within the e-book only: (1) hydrates, carbonates, chemosynthetic communities, and natural hydrocarbon leakages on the seafloor at the Mississippi Canyon hydrate observatory site; (2) hydrate nucleation, migration and self-packing in a laboratory test cell under the influence of anionic surfactants. Extends deep-water hydrate knowledge regarding the hydrate formation and protective cover for microbes within the extreme environment of Mars.

Book Information

File Size: 10585 KB

Print Length: 400 pages

Page Numbers Source ISBN: 0128023198

Publisher: Gulf Professional Publishing; 1 edition (August 24, 2015)

Publication Date: August 24, 2015

Sold by:Â Digital Services LLC

Language: English

ASIN: B014IXH2T6

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #1,247,969 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #69 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Fossil Fuels > Natural Gas #106 in Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Chemical > Petrochemical #145 in Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Petroleum

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