



Small-Scale Gas to Liquid Fuel Synthesis

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It is estimated that a large fraction of natural gas reserves are found in locations from where transport is not economical. If these isolated natural gas reserves could be converted to synthetic fuels, they would generate around 250 billion barrels of synthetic oil—a quantity equal to one-third of the Middle East's proven oil reserves.

Small-Scale Gas to Liquid Fuel Synthesis explores next-generation technologies geared toward overcoming the significant cost and technical barriers prohibiting the extensive use of conventional gas to liquid (GTL) processes for the exploitation of small and/or isolated natural gas reservoirs. The book highlights key research activities in the framework of two large European projects—Innovative Catalytic Technologies & Materials for Next Gas to Liquid Processes (NEXT-GTL) and Oxidative Coupling of Methane followed by Oligomerization to Liquids (OCMOL)—examining novel technical developments that reduce the costs associated with air fractioning and syngas production.

Featuring contributions from internationally respected experts, Small-Scale Gas to Liquid Fuel Synthesis discusses innovative GTL technologies based on recent advances in catalytic membrane systems, reaction engineering, and process design. The book provides academic and industrial researchers with a concise presentation of the current state of the art of low-cost, energy-efficient GTL technologies for small-scale applications.



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