The Greening of Petroleum Operations: The Science of Sustainable Energy Production
M. R. Islam, A. B. Chhetri, M. M. Khan

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DESCRIPTION

The Future of Petroleum Operations

This state-of-the-art text analyzes some of the most contentious issues in the energy industry, covering new and greener processes for engineers and scientists and urging them to move petroleum operations closer to sustainability. Although petroleum is still the world's most diverse, efficient, and abundant energy source, there is a growing initiative from global political and industry leaders to "go green," because of climate concerns and high gasoline prices. This book investigates and details how to do that.

This groundbreaking new volume:

• Explains why current petroleum industry practices are inherently unsustainable and offers unique new solutions for "greening" the petroleum industry

• Discusses hot-button issues, such as global warming, carbon sequestration, zero-waste management, and sustainability

• Shows engineers and scientists how to implement the processes necessary to be more environmentally conscious

• Offers, for the first time, a new theory that certain carbons do not contribute to global warming, but their origin and the processes involved do

Praise for The Greening of Petroleum Operations
"The book proposes a paradigm shift in energy management. It correctly identifies root causes of environmental impact of current petroleum production operations. With proper science, the book shows that fossil fuel production and utilization are inherently sustainable as long as natural materials and energy sources are used. This book has the potential of revolutionizing energy management practices."

— Farouq Ali, Honorary Professor of Oil and Gas Engineering, University of Calgary

—— ABOUT THE AUTHOR ——

M. R. Islam is Professor of Petroleum Engineering at the Civil and Resource Engineering Department of Dalhousie University, Canada. He has over 700 publications to his credit, including 6 books. He is on the boards of several scholarly journals, and, in addition to his teaching duties, he is also the director of Emertec Research and Development Ltd. and has been on the boards of a number of companies in North America and overseas.

M. M. Khan has recently been a lecturer in chemical engineering at the Bangladesh University of Engineering and Technology before recently moving to Canada. He has written a dozen papers and co-authored a book on zero-waste engineering and sustainable technology.

A. B. Chhetri is a Carbon and Energy Analyst with Golder Associates Ltd. in Victoria, B.C. Canada where he delivers consulting services in carbon and energy management. He has over 12 years of experience in energy development and management.

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