## Advanced Catalysis Processes in Petrochemicals and Petroleum Refining: Emerging Research and Opportunities

Part of the Advances in Chemical and Materials Engineering Book Series

Mohammed C. Al-Kinany (King Abdulaziz City for Science and Technology, Saudi Arabia) and Saud A. Aldrees (King Abdulaziz City for Science and Technology, Saudi Arabia)

## **Description:**

Petroleum refining and the petrochemical industry play an important

role in the current world economy. They provide the platform to convert basic raw materials into many essential products, ranging from transportation fuels (such as gasoline, jet fuel, diesel, and gas oil) to basic and intermediate materials for petrochemical industries and many other valuable chemical products.

Advanced Catalysis Processes in Petrochemicals and Petroleum Refining: Emerging Research and Opportunities is an essential comprehensive research publication that provides knowledge on refining processes that could be integrated by the petrochemical industry and discusses how to integrate refining products with petrochemical industries through the use of new technologies. Featuring a range of topics such as biofuel production, environmental sustainability, and biorefineries, this book is ideal for engineers, chemists, industry professionals, policymakers, researchers, academicians, and petrochemical companies.

ISBN: 9781522580331

Release Date: August, 2019

## **Topics Covered:**

- Additives
- Biofuel Production
- Biorefineries
- Crude Oil Conversion
- Engineering

## Hardcover: \$195.00 E-Book: \$195.00 Hardcover + E-Book: \$235.00

• Environmental Sustainability

Copyright: 2020

- Gasoline Reformulation
- Hydrogenation
- Integrated Membrane Systems
- Oxidation



Pages: 205



