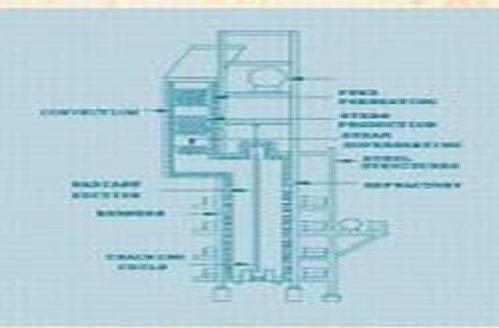
Thermal and Catalytic Processes in Petroleum Refining



Serge Raseev

Thermal And Catalytic Processes In Petroleum Refining

United States. Bureau of Mines

Thermal And Catalytic Processes In Petroleum Refining:

Thermal and Catalytic Processes in Petroleum Refining Serge Raseev, 2003-02-26 This text examines the thermal and catalytic processes involved in the refining of petroleum including visbreaking coking pyrolysis catalytic cracking oligomerization alkylation hydrofining hydroisomerization hydrocracking and catalytic reforming It analyzes the thermodynamics reaction mechanisms and kinetics of each process as well as Thermal and Catalytic Processing in **Petroleum Refining Operations** James G. Speight, 2023-04-11 This book presents the thermal and catalytic processes in refining The differences between each type of process and the types of feedstock that can be used for the processes are presented Relevant process data is provided and process operations are fully described This accessible guide is written for managers professionals and technicians as well as graduate students transitioning into the refining industry Key Features Describes feedstock evaluation and the effects of elemental chemical and fractional composition Details reactor types and bed types Explores the process options and parameters involved Assesses coke formation and additives Considers next generation processes and developments Production and Biorefining of Biocrude Oil: Current Status and Future Developments Mohammad Aslam, Sanjeev Mishra, Jorge Arturo Aburto Anell, 2025-08-17 This book confers a comprehensive discussion on the production and biorefining of biocrude oil derived from second and third generation biomass feedstocks It discusses about the concept of biorefinery fundamentals biorefining raw materials and feedstocks and its associated challenges The book emphasizes on the 3rd generation biorefining feedstock algae as an emerging feedstock for the biorefineries In addition co feedstocks employed in biorefinery are also deliberated It also presents various thermochemical conversion approaches such as hydrothermal liquefaction pyrolysis Fischer Tropsch process and hydroprocessing It deals with the sustainable production of biocrude oil from algal biomass and its upgradation for enhanced fuel properties The book also deliberates on current scenario and future developments in the field of biorefining of biocrude oil and catalysts A comparative assessment of properties and downstream upgradation of biocrude oil through hydrothermal and pyrolysis processes is presented Moreover sustainable production of biofuels and value added products from biorefinery life cycle and techno economic assessment of the conversion of biocrude oil from pyrolysis and biocrude upgrading technology and challenges are also discussed This book is a good reference for professionals post graduate students researchers and policymakers working in the areas of biorefineries for sustainable development **Petroleum Refining Processes** James G. Speight, Baki Ozum, 2001-10-31 This work highlights contemporary approaches to resource utilization and provides comprehensive coverage of technological advances in residuum conversion It illustrates state of the art engineering methods for the refinement of heavy oils bitumen and other high sulphur feedstocks **Encyclopaedia of Occupational Health** and Safety Jeanne Mager Stellman, 1998 Hydrocarbon Processing & Petroleum Refiner ,1929 **Bulletin** United States. Bureau of Mines. 1956 Mineral Facts and Problems United States. Bureau of Mines. 1956 Chemistry and

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