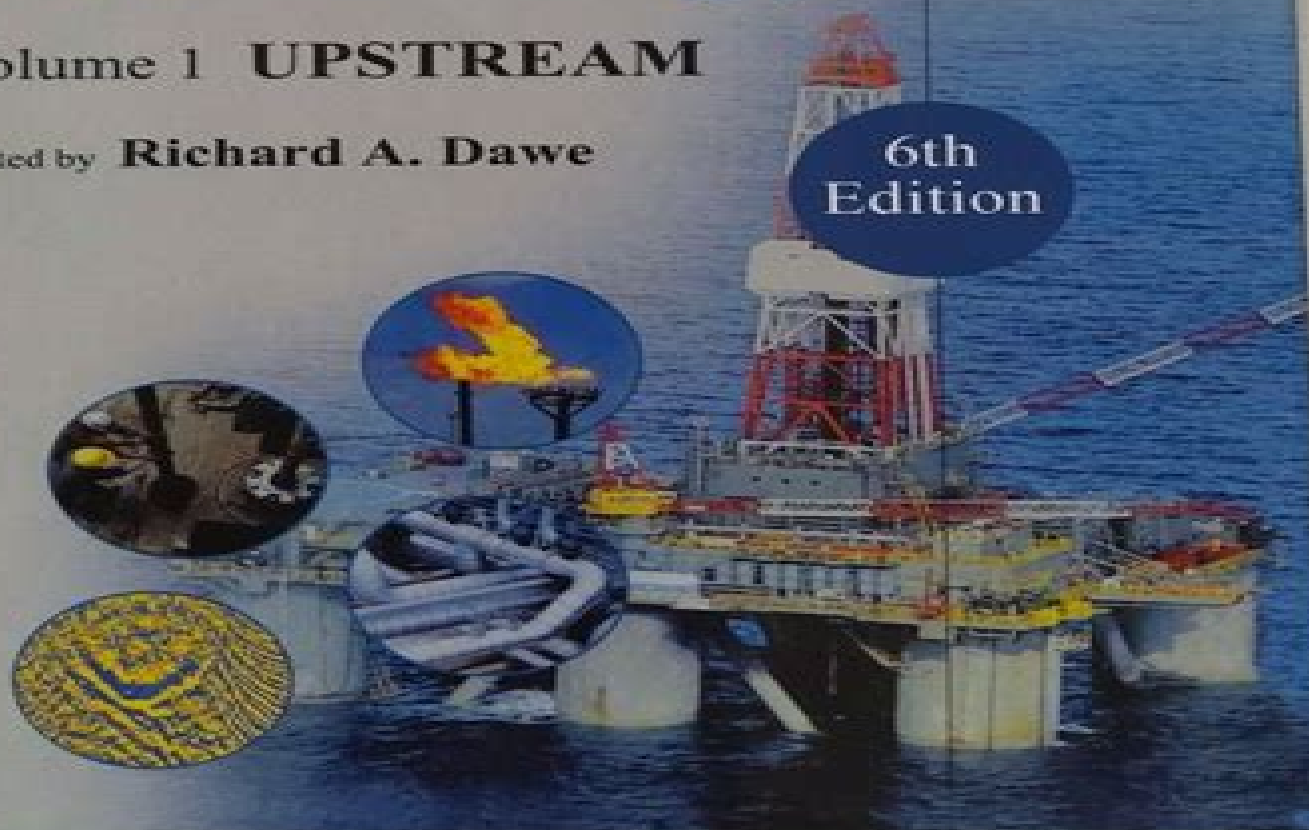


Modern Petroleum Technology

Volume 1 **UPSTREAM**

Edited by **Richard A. Dawe**

**6th
Edition**



Modern Petroleum Technology Upstream

James G. Speight, Karuna K. Arjoon



Modern Petroleum Technology Upstream:

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George Douglas Hobson,1984 **The Chemistry and Technology of Petroleum, Fifth Edition** James G.

Speight,2014-02-26 With demand for petroleum products increasing worldwide there is a tendency for existing refineries to seek new approaches to optimize efficiency and throughput In addition changes in product specifications due to environmental regulations greatly influence the development of petroleum refining technologies These factors underlie the need for this fifth edition of The Chemistry and Technology of Petroleum which continues in the tradition of the bestselling fourth edition proving readers with a detailed overview of the chemistry and technology of petroleum as it evolves into the twenty first century The new edition has been updated with the latest developments in the refining industry including new processes as well as updates on evolving processes and various environmental regulations The book covers issues related to economics and future refineries examines the changing character of refinery feedstock and offers new discussions on environmental aspects of refining It contains more than 300 figures and tables including chemical structures and process flow sheets A useful reference for scientists and engineers in the petroleum industry as well as in the catalyst manufacturing industry this book introduces readers to the science and technology of petroleum beginning with its formation in the ground and culminating in the production of a wide variety of products and petrochemical intermediates *Petrochemistry* Martin

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Speight, 2018-06-28 A comprehensive resource to the origin properties and analysis of natural gas and its constituents Handbook of Natural Gas Analysis is a comprehensive guide that includes information on the origin and analysis of natural gas the standard test methods and procedures that help with the predictability of gas composition and behavior during gas cleaning operations and use The author a noted expert on the topic also explores the properties and behavior of the various components of natural gas and gas condensate All chapters are written as stand alone chapters and they cover a wealth of topics including history and uses origin and production composition and properties recovery storage and transportation properties and analysis of gas stream and gas condensate The text is designed to help with the identification of quality criteria appropriate analysis and testing that fall under the umbrella of ASTM International ASTM is an organization that is recognized globally across borders disciplines and industries and works to improve performance in manufacturing and materials and products This important guide Contains detailed information on natural gas and its constituents Offers an analysis of methane gas hydrates ethane propane butane and gas condensate Includes information on the behavior of natural gas to aid in the planning for recovery storage transportation and use Covers the test methods that are applicable to natural gas and its constituents Written in accessible and easy to understand terms Written for scientists engineers analytical chemists who work with natural gas as well as other scientists and engineers in the industry Handbook of Natural Gas Analysis offers a guide to the analysis standard test methods and procedures that aid in the predictability of gas composition and behavior during gas cleaning operations and use

Converting Power into Chemicals and Fuels Martin

Bajus, 2023-07-17 CONVERTING POWER INTO CHEMICALS AND FUELS Understand the pivotal role that the petrochemical industry will play in the energy transition by integrating renewable or low carbon alternatives Power into Chemicals and Fuels stresses the versatility of hydrogen as an enabler of the renewable energy system an energy vector that can be transported and stored and a fuel for the transportation sector heating of buildings and providing heat and feedstock to industry It can reduce both carbon and local emissions increase energy security and strengthen the economy as well as support the deployment of renewable power generation such as wind solar nuclear and hydro With a focus on power to X technologies this book discusses the production of basic petrochemicals in such a way as to minimize the carbon footprint and develop procedures that save energy or use energy from renewable sources Various different power to X system configurations are introduced with discussions on their performance environmental impact and cost Technologies for sustainable hydrogen production are covered focusing on water electrolysis using renewable energy as well as consideration of the remaining challenges for large scale production and integration with other technologies Power into Chemicals and Fuels readers will also find Discussion of recent advances in power into x technologies for the production of ethylene propylene formic acid and more Coverage of every stage in the power into x process from power generation to upgrading the final product Thermodynamic technoeconomic and life cycle assessment analyses of each major process Power into

Chemicals and Fuels is a valuable resource for scientists and engineers working in the petrochemicals and hydrocarbons industries as well as for all industry professionals in these and related fields

Bioremediation of Petroleum and Petroleum Products James G. Speight, Karuna K. Arjoon, 2012-11-07 With petroleum related spills explosions and health issues in the headlines almost every day the issue of remediation of petroleum and petroleum products is taking on increasing importance for the survival of our environment our planet and our future This book is the first of its kind to explore this difficult issue from an engineering and scientific point of view and offer solutions and reasonable courses of action This book will guide the reader through the various methods that are used for the bioremediation of petroleum and petroleum products The text is easy to read and includes many up to date and topical references This book introduces the reader to the science and technology of biodegradation a key process in the bioremediation of petroleum and petroleum based contaminants at spill sites The contaminants of concern in the molecularly variable petroleum and petroleum products can be degraded under appropriate conditions But the success of the process depends on the ability to determine the necessary conditions and establish them in the contaminated environment Although the prime focus of the book is to determine the mechanism extent and efficiency of biodegradation it is necessary to know the composition of the original petroleum or petroleum product The laws of science dictate what can or cannot be done with petroleum and petroleum products to ensure that biodegradation hence bioremediation processes are effective The science of the composition of petroleum and petroleum products is at the core of understanding the chemistry of biodegradation and bioremediation processes Hence inclusion of petroleum analyses and properties along with petroleum product analyses and properties is a necessary part of this text Bioremediation of Petroleum and Petroleum Products Summarizes the pros and cons of remediation of petroleum and petroleum based products from an environmental perspective Gives examples of unethical behavior and how they should be corrected Offers arguments and elucidates engineering considerations on all sides of these difficult environmental and economic issues

Natural Gas James G. Speight, 2018-11-26 Natural Gas A Basic Handbook Second Edition provides the reader with a quick and accessible introduction to a fuel source industry that is transforming the energy sector Written at an introductory level but still appropriate for engineers and other technical readers this book provides an overview of natural gas as a fuel source including its origins properties and composition Discussions include the production of natural gas from traditional and unconventional sources the downstream aspects of the natural gas industry including processing storage and transportation and environmental issues and emission controls strategies This book presents an ideal resource on the topic for engineers new to natural gas for advisors and consultants in the natural gas industry and for technical readers interested in learning more about this clean burning fuel source and how it is shaping the energy industry Updated to include newer sources like shale gas Includes new discussions on natural gas hydrates and flow assurance Covers environmental issues Contain expanded coverage of liquefied natural gas LNG

Modern Industrial IoT,

Big Data and Supply Chain Victor Chang, Muthu Ramachandran, Víctor Méndez Muñoz, 2021-03-31 This book is a collection of selected papers presented at the First International Conference on Industrial IoT Big Data and Supply Chain IIoTBDSC held as an online conference due to COVID 19 initially to be held in Macao Special Administration Region SAR of China during September 15 17 2020 It includes novel and innovative work from experts practitioners scientists and decision makers from academia and industry It brings multi disciplines together on IIoT data science cloud computing software engineering approaches to design development testing and quality of products and services

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