

# HANDBOOK OF PETROLEUM REFINING PROCESSES

SECOND EDITION



This comprehensive handbook provides a detailed overview of the refining processes used in the petroleum industry. It covers the entire range of refining operations, from the initial distillation of crude oil to the final production of refined products. The book is written in a clear, concise style, making it accessible to both students and professionals. It includes numerous diagrams, tables, and photographs to illustrate the various processes and equipment used in refining. The second edition has been fully updated to reflect the latest developments in the industry, including new refining technologies and environmental regulations. This is an essential reference for anyone involved in the petroleum refining process.

*Edited by* **James G. Speight**

# Handbook Of Petroleum Refining Processes 3rd Edition

**Yalsin Gogus**



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from such major licensors of petroleum refining technology as UOP Inc Shell ExxonMobil Research and Engineering Company EMRE Chevron Lummus Global Phillips 66 Belco BP and others The new edition shifts its emphasis to accommodate the increased production of shale gas and shale oil which is changing the overall mix of hydrocarbon feeds Declining conventional crude production and the need for regional energy independence continues to drive demand to use lower cost alternate feedstocks such as coal shale oil and heavy crude To use alternate feedstocks in existing refineries many processes need to be modified The increase in diesel demand and stricter fuel specifications is driving refiners to look for ways to produce higher yields from existing assets The book reflects these factors plus the increase in residue conversion hydrocracking evolving as a primary conversion process and hydrotreating increasing as a way to treat virgin and cracked middle distillate streams Offers detailed description of process chemistry and thermodynamics and product by product specifications of plants Contributors are drawn from the largest petroleum producers in the world including Chevron Shell ExxonMobil and UOP Covers the very latest technologies in the field of petroleum refining processes and the shift toward shale gas and oil A complete listing and explanation of licensable global technologies for the refining of petroleum and the production of environmentally acceptable fuels and petrochemical intermediates Provides product by product specifications and process economics capital investment annualized capital costs and the price range for each product

*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

*Petroleum Refining* Mark J. Kaiser, Arno de Klerk, James H. Gary, Glenn E. Handwerk, 2019-09-11 For four decades *Petroleum Refining* has guided thousands of readers toward a reliable understanding of the field and through the years has become the standard text in many schools and universities around the world offering petroleum refining classes for self study training and as a reference for industry professionals The sixth edition of this perennial bestseller continues in the tradition set by Jim Gary as the most modern and authoritative guide in the field Updated and expanded to reflect new technologies methods and topics the book includes new discussion on the business and economics of refining cost estimation and complexity crude origins and properties fuel specifications and updates on technology process units and catalysts The first half of the book is written for a general audience to introduce the primary economic and market characteristics of the industry and to describe the inputs and outputs of refining Most of this material is new to this edition and can be read independently or in parallel with the rest of the text In the second half of the book a technical review of the main process units of a refinery is provided beginning with distillation and covering each of the primary conversion and treatment processes Much of this material was reorganized updated and rewritten with greater emphasis on reaction chemistry and the role of catalysis in applications

*Petroleum Refining Technology Economics and Markets* is a book written for users the practitioners of refining and all those who want

to learn more about the field     Petroleum Refining James H. Gary, Glenn E. Handwerk, Mark J. Kaiser, 2007-03-05 Petroleum refiners must face billion dollar investments in equipment in order to meet ever changing environmental requirements Because the design and construction of new processing units entail several years lead time refiners are reluctant to commit these dollars for equipment that may no longer meet certain conditions when the units come on stream Written by experts with both academic and professional experience in refinery operation design and evaluation Petroleum Refining Technology and Economics Fifth Edition is an essential textbook for students and a vital resource for engineers This latest edition of a bestselling text provides updated data and addresses changes in refinery feedstock product distribution and processing requirements resulting from federal and state legislation Providing a detailed overview of today's integrated fuels refinery the book discusses each major refining process as they relate to topics such as feedstock preparation operating costs catalysts yields finished product properties and economics It also contains end of chapter problems and an ongoing case study     **Handbook of Petroleum Refining** James G. Speight, 2016-10-26 Petroleum refining involves refining crude petroleum as well as producing raw materials for the petrochemical industry This book covers current refinery processes and process types that are likely to come on stream during the next three to five decades The book includes 1 comparisons of conventional feedstocks with heavy oil tar sand bitumen and bio feedstocks 2 properties and refinability of the various feedstocks 3 thermal processes versus hydroprocesses and 4 the influence of refining on the environment     **The John Zink Combustion Handbook** Jr., Charles E. Baukal, 2001-03-27 Despite the length of time it has been around its importance and vast amounts of research combustion is still far from being completely understood Industrial applications of combustion add environmental cost and fuel consumption issues to its fundamental complexity and the process and power generation industries in particular present their o     Encyclopedic Dictionary of Named Processes in Chemical Technology Alan E. Comyns, 2007-06-07 Recommended by Choice Current Reviews for Academic Libraries Covering a broad spectrum of chemical technology from the gigantic Bessemer process for making steel to the microscopic Manasevit process for applying circuits to silicon chips the Encyclopedic Dictionary of Named Processes in Chemical Technology Third Edition

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**Hydrocarbon Chemistry** George A. Olah, Arpad Molnar, G. K. Surya Prakash, 2017-09-08 This book provides an unparalleled contemporary assessment of hydrocarbon chemistry presenting basic concepts current research and future applications Comprehensive and updated review and discussion of the field of hydrocarbon chemistry Includes literature coverage since the publication of the previous edition Expands or adds coverage of carboxylation sustainable hydrocarbons extraterrestrial hydrocarbons Addresses a topic of special relevance in contemporary science since hydrocarbons play a role as a possible replacement for coal petroleum oil and natural gas as well as their environmentally safe use Reviews of prior edition literature coverage is comprehensive and ideal for quickly reviewing specific topics of most value to industrial chemists Angewandte Chemie and useful for chemical engineers as well as engineers in the chemical and petrochemical industries Petroleum Science and Technology

**Energy Storage Systems - Volume II** Yalsin Gogus, 2009-09-30 Energy Storage Systems theme is a component of Encyclopedia of Energy Sciences Engineering and Technology Resources which is part of the global Encyclopedia of Life Support Systems EOLSS an integrated compendium of twenty one Encyclopedias The Theme is organized into six different topics which represent the main scientific areas of the theme The first topic Rationale of Energy Storage and Supply Demand Matching is devoted to the discussion of essential concepts and the most important aspects of the optimization establishment and operation of energy storage systems based on six cases as examples The succeeding four topics are Storage of Thermal Energy Mechanical Energy Storage Storage of Electrical Energy Storage of Chemical Energy and Nuclear Materials Each of these consists of a topic chapter emphasizing the general aspects and various subject articles explaining the back ground theory and practice of a specific type of energy storage of that topic The last topic is transport of energy with emphasis on hydrogen as future energy carrier It contains detailed review of other modes of energy transport and discussion of environmental effects Fundamentals and applications of characteristic methods are presented in these volumes These two volumes are aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

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**Handbook of Petroleum Processing** David S. J. Jones,Peter P. Pujadó,2006-10-04 This handbook describes and discusses the features that make up the petroleum refining industry It begins with a description of the crude oils and their nature and continues with the saleable products from the refining processes with a review of the environmental impact There is a complete overview of the processes that make up the refinery with a brief history of those processes It also describes design technique operation and in the case of catalytic units the chemistry of the reaction routes These discussions are supported by calculation procedures and examples sufficient to enable input to modern computer simulation packages

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