



Petroleum Processing

Jean-Pierre Wauquier



Petroleum Processing:

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. It continues with the saleable products from the refining processes with a review of the modern day environmental impact. There is a complete overview of the processes that make up the refinery with a brief history of the 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 good input to modern computer simulation packages. The Handbook also covers off sites and utilities as well as environmental and safety aspects relevant to the industry.

Practical Advances in Petroleum Processing Chang Samuel Hsu, Paul R. Robinson, 2007-01-10 Includes topics not found together in books on petroleum processing: economics, automation, process modeling, online optimization, safety, environmental protection. Combines overviews of petroleum composition, refinery processes, process automation and environmental protection with comprehensive chapters on recent advances in hydroprocessing, FCC lubricants, hydrogen management. Gives diverse perspectives both geographic and topical because contributors include experts from eight different countries in North America, Europe and Asia representing oil companies, universities, catalyst vendors, process licensors, consultants and engineering contractors.

Elements of Petroleum Processing D. S. J. Jones, 1995-06-13 Uses a practical day to day approach regarding the operations of the petroleum industry. Organized to allow ease of reference and data searching, it simplifies the complex subject of crude oil and its composition with easy to understand diagrams. Covers vacuum and atmospheric distillation, the recovery of propane and butanes along with in depth descriptions of catalytic treating and reforming units. Each chapter details various calculation techniques used to define the aspects of every process and includes rules of thumb employed in plant operation and design.

Petroleum Processing Handbook William F. Bland, Robert L. Davidson, 1967

Petroleum Refining Design and Applications Handbook, Volume 5 A. Kayode Coker, 2023-06-22

PETROLEUM REFINING With no new refineries having been built in decades, companies continue to build onto or reverse engineer and retool existing refineries. With so many changes in the last few years alone, books like this are very much in need. There is truly a renaissance for chemical and process engineering going on right now across multiple industries. This fifth and final volume in the Petroleum Refining Design and Applications Handbook set, this book continues the most up to date and comprehensive coverage of the most significant and recent changes to petroleum refining, presenting the state of the art to the engineer, scientist or student. Besides the list below, this groundbreaking new volume describes blending of products from the refinery, applying the ternary diagrams and classifications of crude oils, flash point, blending pour point, blending aniline point, blending smoke point and viscosity, blending cetane and diesel indices. The volume further reviews refinery operational cost, cost allocation of actual usage, project and economic evaluation involving cost estimation, cash flow.

involving return on investment net present values discounted cash flow rate of return net present values payback period inflation and sensitivity analysis and so on It reviews global effects on the refining economy carbon tax carbon foot print global warming potential carbon dioxide equivalent carbon credit carbon offset carbon price and so on It reviews sustainability in petroleum refining and alternative fuels biofuels and so on impact of the overall greenhouse effects carbon capture and storage in refineries process intensification in biodiesel biofuel from green diesel acid gas removal and emerging technologies carbon capture and storage gas heated reformer unit pressure swing adsorption process steam methane reforming for fuel cells grey blue and green hydrogen production new technologies for carbon capture and storage carbon clean process design refinery of the future refining and petrochemical industry characteristics The text is packed with Excel spreadsheet calculations and Honeywell UniSim Design software in some examples and it includes an invaluable glossary of petroleum and petrochemical technical terminologies Useful as a textbook this is also an excellent handy go to reference for the veteran engineer a volume no chemical or process engineering library should be without Written by one of the world's foremost authorities this book sets the standard for the industry and is an integral part of the petroleum refining renaissance It is truly a must have for any practicing engineer or student in this area Petroleum Refining Design and Applications Handbook, Volume 2 A. Kayode Coker, 2021-03-09 A must read for any practicing engineer or student in this area There is a renaissance that is occurring in chemical and process engineering and it is crucial for today's scientists engineers technicians and operators to stay current This book offers the most up to date and comprehensive coverage of the most significant and recent changes to petroleum refining presenting the state of the art to the engineer scientist or student Useful as a textbook this is also an excellent handy go to reference for the veteran engineer a volume no chemical or process engineering library should be without **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 *Petroleum Refining* James H. Gary, Glenn E. Handwerk, 1975 **Petroleum Refining: Crude oil, petroleum products, process flowsheets** Jean-Pierre Wauquier, 1995 In this first volume the reader will find collected and condensed the information needed to characterize analyze and evaluate crude oils from different origins and their corresponding petroleum cuts as well The characteristics and specifications of all the petroleum products along with their simplified process flowsheets are reviewed Contents 1 Composition of crude oils and petroleum products 2 Fractionation and elemental analysis of crude oils and petroleum cuts 3 Characterization of crude oils and petroleum fractions 4 Methods for the calculation of hydrocarbon physical properties 5 Characteristics of petroleum products for energy use motor fuels

heating fuels 6 Characteristics of non fuel petroleum products 7 Standards and specifications of petroleum products 8 Evaluation of crude oils 9 Additives for motor fuels and lubricants 10 Introduction to refining Appendices Principal characteristics of pure components Principal standard test methods for petroleum products References Index **Chemical Process Technology** Jacob A. Moulijn, Michiel Makkee, Annelies E. van Diepen, 2013-03-21 With a focus on actual industrial processes e g the production of light alkenes synthesis gas fine chemicals polyethene it encourages the reader to think out of the box and invent and develop novel unit operations and processes Reflecting today s emphasis on sustainability this edition contains new coverage of biomass as an alternative to fossil fuels and process intensification The second edition includes New chapters on Process Intensification and Processes for the Conversion of Biomass Updated and expanded chapters throughout with 35% new material overall Text boxes containing case studies and examples from various different industries e g synthesis loop designs Sasol I Plant Kaminsky catalysts production of Ibuprofen click chemistry ammonia synthesis fluid catalytic cracking Questions throughout to stimulate debate and keep students awake Richly illustrated chapters with improved figures and flow diagrams Chemical Process Technology Second Edition is a comprehensive introduction linking the fundamental theory and concepts to the applied nature of the subject It will be invaluable to students of chemical engineering biotechnology and industrial chemistry as well as practising chemical engineers From reviews of the first edition The authors have blended process technology chemistry and thermodynamics in an elegant manner Overall this is a welcome addition to books on chemical technology The Chemist Impressively wide ranging and comprehensive an excellent textbook for students with a combination of fundamental knowledge and technology Chemistry in Britain now Chemistry World

Heterogeneous Catalysis Georgii Konstantinovich Boreskov, 2003 Table of contents *Hydrocarbon Processing & Petroleum Refiner*, 1928 Inventory of Energy Research and Development, 1973-1975: Indexes and appendices Oak Ridge National Laboratory, 1976 Inventory of energy research and development--1973-1975 Oak Ridge National Laboratory, 1976 **Handbook for Chemical Process Industries** Himanshu J Patel, 2023-10-06 Chemical processing industry plays a pivotal role in the economy of a country as chemicals are required in every sphere of our lives This book covers chemical processing of dyes pigments drugs and pharmaceutical products fermented products agrochemicals explosives polymers Period II and III chemicals chemicals sugar coatings starches soaps and detergents paper pulp glass and cement It includes sources of natural materials collection process purification and extraction of different chemicals from natural materials like petroleum coal and ores from the Earth It includes manufacturing details of C1 to C4 and aromatic compounds obtained from natural materials The book covers both traditional and modern sectors of the chemical processing industry It provides knowledge on the properties of the chemical and manufacturing process such as raw materials chemical reactions quantitative requirement flow sheet diagram procedure and its uses The book is based on the author s expertise and has been developed with an awareness of the quantitative requirement for manufacturing chemicals Data has been

collected from industry thus it will be useful to industry personnel research groups academicians and institutional organizations

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

Inventory of Current Energy Research and Development Oak Ridge National Laboratory, 1972

Fundamentals of Petroleum Refining Mohamed A. Fahim, Taher A. Al-Sahhaf, Amal Elkilani, 2009-11-19 *Fundamentals of Petroleum Refining* presents the fundamentals of thermodynamics and kinetics and it explains the scientific background essential for understanding refinery operations The text also provides a detailed introduction to refinery engineering topics ranging from the basic principles and unit operations to overall refinery economics The book covers important topics such as clean fuels gasification biofuels and environmental impact of refining which are not commonly discussed in most refinery textbooks Throughout the source problem sets and examples are given to help the reader practice and apply the fundamental principles of refining Chapters 1-10 can be used as core materials for teaching undergraduate courses The first two chapters present an introduction to the petroleum refining industry and then focus on feedstocks and products Thermophysical properties of crude oils and petroleum fractions including processes of atmospheric and vacuum distillations are discussed in Chapters 3 and 4 Conversion processes product blending and alkylation are covered in chapters 5-10 The remaining chapters discuss hydrogen production clean fuel production refining economics and safety acid gas treatment and removal and methods for environmental and effluent treatments This source can serve both professionals and students on undergraduate and graduate levels of Chemical and Petroleum Engineering Chemistry and Chemical Technology Beginners in the engineering field specifically in the oil and gas industry may also find this book invaluable Provides balanced coverage of fundamental and operational topics Includes spreadsheets and process simulators for showing trends and simulation case studies Relates processing to planning and management to give an integrated picture of refining

Process Steam Systems: A Practical Guide for Operators, Maintainers, Designers, and Educators Carey Merritt, 2022-11-01 *Process Steam Systems* A comprehensive and accessible handbook for process steam systems The revised second edition of *Process Steam Systems* A

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