

SIXTH EDITION

PETROLEUM REFINING

Technology, Economics, and Markets

Mark J. Kaiser Arno de Klerk James H. Gary Glenn E. Handwerk



Petroleum Refining Technology Economics Edition

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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

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, 2007

Solutions Manual for Petroleum Refining Technology and Economics James H. Gary, Kaiser Mark J,2006-11-15

Hydrogen Production Processes in Refining Technology James G. Speight, 2024-06-26 This book details the various approaches to the production of hydrogen in petroleum refining The need for hydrogen is addressed and then the differences between the processes are detailed This practical and accessible guide is written for managers professionals and technicians as well as graduate students transitioning into the refining industry Key Features Describes hydrogen purification methods

and processes providing relevant process data and fully describing process operations Describes hydrogen purification methods and processes detailing the types of feedstock that can be used and exploring the options and parameters of each process Details commercial processes including gasification pretreatment and reactions and considers next generation processes and developments 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 The Desulfurization of Heavy Oils and Residua James G. Speight, 1999-11-05 Second Edition expands and updates information on the technological aspects of refining heavy oils residua bitumen and other high sulfur feedstocks Focuses on the range of next generation refining processes Petroleum refining: technology and economics James H. Gary, 1975 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 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 **Fuels and Lubricants Handbook**, **Refinery Products and Product Improvement Processes** James G. Speight, 2024-04-18 This book focuses on the various refinery products product improvement processes and solvent processes that are used in the refining industry and the processes used in product improvement to ensure products meet sales specifications. This accessible book is written for engineers scientists students and academics wanting an update on crude oil processing and insight into the direction of the industry Key features Describes the development of technologies for a variety of feedstocks including heavy feedstocks utilizing advanced pre treatment processing and hydrotreating Presents the initial refining processes and prepares for the new changes and evolution of the industry including the role of biomass in the future refinery Analyses catalyst deactivation mechanism for developing optimum technologies for processing feedstocks with low reactivity Includes an extensive glossary which will be beneficial for non technical readers Chemistry And <u>Technology Of Alternate Fuels</u> James G Speight, 2020-10-14 This compendium covers unconventional fuel sources i e sources other than crude oil and natural gas with the aim of presenting these sources as future alternates to fossil fuels. The contents of this must have volume are important aspects of the non fossil fuel sources of availability of alternate sources of fuels The properties of these fuels are well documented and compared to other fuels from non petroleum sources such as tar sand coal and oil shale The environmental effects of non petroleum fuels will also be compared to other fuels in terms of current environmental regulations Gas Engineering James G. Speight, 2023-05-08 This 3rd volume of Gas Engineering introduces the concept of liquefied natural gas and the concept gas to liquids and also presents a review of the uses of gas streams and the effects of the various gases on the environment This volume also describes the properties gas streams as they are related to corrosion effects are also presented The relationship of the properties of gas streams as they affect corrosion such as carburization and metal dusting as well as corrosion in steel and other materials used in refinery technology are also presented and the book summarizes key findings into corrosion processes in gas processing equipment as well as corrosion in offshore structures Each book contains references at the end of chapter which include information from the open literature and meeting proceedings to give a picture of where the gas processing technology stands as well as indicate some relatively new technologies that could become important in the future Also each book also contains a comprehensive glossary The books are written in an easy to read style and offer a ready at hand one stop shopping guide to the many issues that are related to the engineering aspects of the properties and processing of natural gas as well as the effects of natural gas on various ecosystems as well as to pollutant mitigation and clean up The books present an overview with a considerable degree of detail of the various aspects of natural gas technology Any chemistry presented in the books is used as a means of explanation of a particular point but is maintained at an elementary level Harvest of research outcomes to confirm achievement of the millennium development goals Simeon O. Jekayinfa, 2017-09-15 In 2000 the leaders of member states of the United Nations adopted the Millennium Declaration which set out a series of clear commitments goals and targets to

achieve Human Development These ambitious goals were subsequently refined into eight Millennium Development Goals MDGs designed to provide a framework for accountability donor coordination and resource mobilization The MDGs are Eradicate extreme poverty and hunger achieve universal primary education promote gender equality and empower women reduce child mortality improve maternal health combat HIV AIDS malaria and other diseases ensure environmental sustainability and develop a global partnership for development The first seven of these Goals are concerned with outcomes identifying the progress towards certain standards of human well being and decent living which should be achieved globally and nationally by 2015 The eighth Goal is concerned with relationships identifying various aspects of a global partnership for development which must be forged to support the realization of these poverty reduction human development and environmental sustainability standards The MDGs provide opportunities to start working from real life development problems Addressing these problems requires multidisciplinary approaches that combine the natural sciences the life sciences and technical approaches with social science approaches. The challenge is to integrate social economic political and institutional concerns into research strategy To be able to achieve this there is a need to establish a linking pin between research policy and practice in Nigeria The aim of such a linking pin would be to synthesize research outcomes on specific MDGrelated topics and to translate these into implications for policy and decision making through easily accessible gathering where individual stakeholders can air their views The articles contained in this book address research outcomes from stakeholders Sociologists Economists Agronomists Agricultural Engineers Civil Engineers Environmental Scientists and Engineers Geographers Geologists Microbiologists Medical Practitioners Policy Makers Educationists etc to confirm achievement of Millennium Development Goals in Nigeria and other neighboring countries Synthesis Gas James G. Speight, 2020-06-10 As a follow up to the Handbook of Gasification Technology also from Wiley Scrivener Synthesis Gas goes into more depth on how the products from this important technology can reduce our global carbon footprint and lead the United States and other countries toward energy independence The environmental benefits are very high and along with carbon capture and renewable fuels synthesis gas or syngas is a huge step toward environmental sustainability Synthesis gas is one of the most important advancements that has ever occurred in energy production Using this technology for example coal biomass waste products or a combination of two or more of these can be gasified into a product that has roughly half the carbon footprint of coal alone Used on a massive scale just think of the potential for reducing carbon emissions Synthesis Gas covers all aspects of the technology from the chemistry processes and production to the products feedstocks and even safety in the plant Whether a veteran engineer or scientist using it as a reference or a professor using it as a textbook this outstanding new volume is a must have for any library **The Refinery of the Future** James G. Speight, 2020-07-25 The Refinery of the Future Second Edition delivers useful knowledge that will help the engineer understand the processes involved feedstocks composition and future technologies Covering the basic chemistry commercial processes already in use and future innovation

this reference gives engineers and managers the tools needed to understand refining products feedstocks and the processes critical to convert feedstocks to desired outcomes New information concerning tight shale formations and heavy oil process options is included for today s operations Rounding out with future uses in shale bioliquids and refinery configurations this book gives engineers and refinery managers the knowledge to update and upgrade their refinery assets Links basic petrochemical and refinery knowledge into application for today s oil and gas refining industry Gives insights into the development and applications of refining process technology along with the types of feedstock and their properties Updated with a focus on crude oils recovered from tight shale and sandstone formations along with increased emphasis on heavy oil and tar sand bitumen 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 **Handbook of Petrochemical Processes** James G. Speight, 2019-06-13 The petrochemical industry is a scientific and engineering field that encompasses the production of a wide range of chemicals and polymers The purpose of this book is not only to provide a follow on to form the later chapters of the highly successful Chemistry and Technology of Petroleum 5th Edition but also provides a simplified approach to a very diverse chemical subject dealing with the chemistry and technology of various petroleum and petrochemical process Following from the introductory chapters this book provides the readers with a valuable source of information containing insights into petrochemical reactions and products process technology and polymer synthesis Provides readers with a valuable source of information containing insights into petrochemical reactions and products process technology and polymer synthesis Introduces the reader to the various petrochemical intermediates are generally produced by chemical conversion of primary petrochemicals to form more complicated derivative products The reactions and processes involved in transforming petroleum based hydrocarbons into the chemicals that form the basis of the multi billion dollar petrochemical industry are reviewed and described The book includes information on new process developments for the production of raw materials and intermediates for petrochemicals Includes a description of the origin of the raw materials for the petrochemicals industry including an overview of the coal chemicals industry Gas Cleaning Processes in Refining Technology James G. Speight, 2024-11-26 This book focuses on the various refinery processes that are used for gas cleaning operations By understanding the use of gas cleaning processes this book will satisfy the needs of engineers and scientists at all levels from academia to the refinery and help them understand the initial various processes. This accessible guide is written for managers professionals and technicians as well as graduate students transitioning into the refining industry Key Features Describes gas streams produced in a crude oil refinery and from non refinery feedstocks Covers gas condensate gas from biomass waste and landfill waste and details categorization by types of contaminants and by removal method Provides

an extensive glossary Discusses the future of gas cleaning operations and the evolution of the industry This series of eight books is designed to present descriptions of 1 the development of technologies for a variety of feedstocks including the viscous feedstocks which are often referred to as heavy feedstocks utilizing advanced pre treatment processing and hydrotreating 2 an analysis of the catalyst deactivation mechanism for developing optimum technologies for processing feedstocks with low reactivity 3 the development of advanced technologies applicable to the viscous feedstocks 4 the development of advanced hydrocracking processes for heavy feedstock upgrading 5 the development of innovative upgrading processes for the viscous feedstocks and 6 the role of biomass in the future refinery Furthermore each book is a stand alone volume that will bring the reader further up to date and adds more data as well as processing options that may be the processes of the evolving twenty first century As the eighth book in the series this book will focus on the various refinery processes that are used for gas cleaning operations The target audience includes engineers scientists and students who want an update on crude oil processing and the direction of the industry in the next 50 years Such personnel include 1 professionals in the refining industry 2 technicians in the refining industry 3 industry management personnel who need to understand the various processes and the role of these process in producing the desired feedstocks for further processing and the use of solvents to produce saleable products and 4 the academic staff and graduate students who are moving into the refining industry Any non technical readers with help from the extensive glossary will also benefit from the series

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web the calendar year is divided into 12 pay periods consisting of 21 or 22 workdays or 168 or 176 designated work hours

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