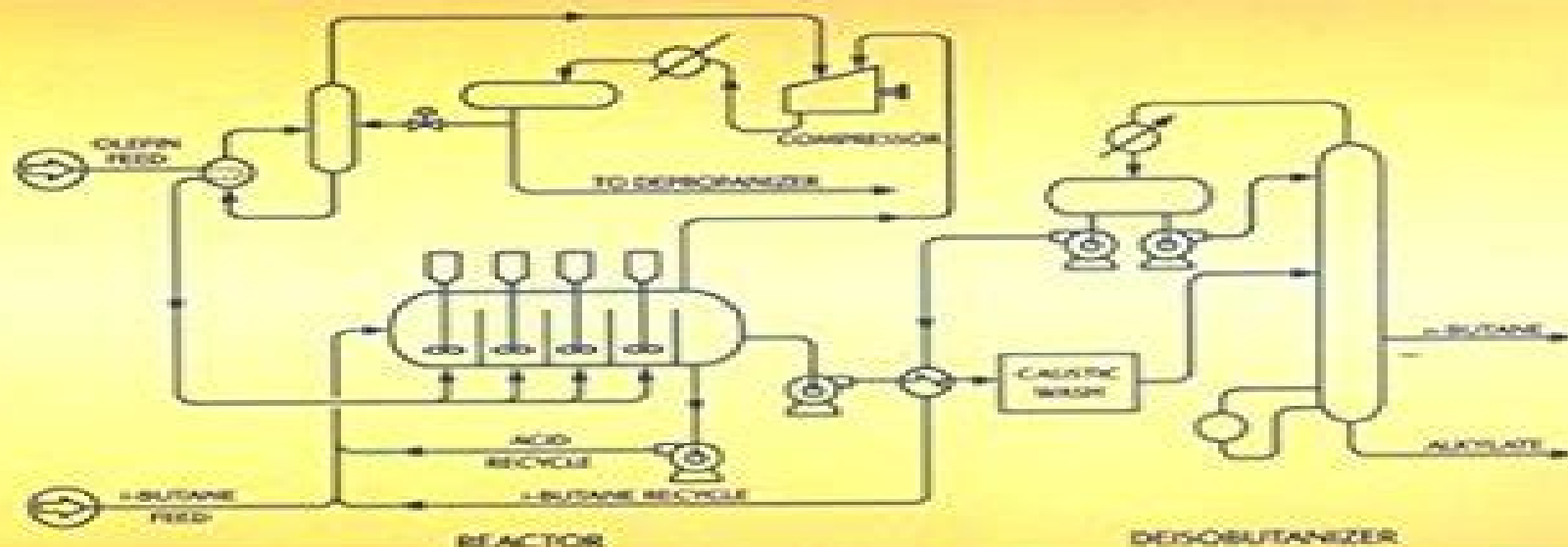


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CRC Press
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Petroleum Refining Technology And Economics 5th Edition:

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 **Solutions**

Manual for Petroleum Refining Technology and Economics James H. Gary, Kaiser Mark J, 2006-11-15 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 Petroleum Refining James H. Gary, 2007 **Petroleum Refining Design and Applications Handbook, Volume 1** A. Kayode Coker, 2018-08-09 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 With so many changes over the last few decades in equipment and processes petroleum refining is almost a living document constantly needing updating With no new refineries being built companies are spending their capital re tooling and adding on to existing plants Refineries are like small cities today as they grow bigger and bigger and more and more complex A huge

percentage of a refinery can be changed literally from year to year to account for the type of crude being refined or to integrate new equipment or processes This book is 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 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

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 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 re tool 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 **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 *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 Handbook of Refinery Desulfurization Nour Shafik El-Gendy,2015-09-18 Handbook of Refinery Desulfurization describes the operation of the various desulfurization process units in a petroleum refinery It also explains the processes that produce raw materials for the petrochemical industry It illustrates all the possible processes to lower the sulfur contents in petroleum and its fractions to decrease emissions of sulfur oxides This book introduces you to desulfurization concepts including biodesulfurization as well as technology giving guidance on how to accomplish

desulfurization in various refining processes It contains background chapters on the composition and evaluation of feedstocks and includes diagrams and tables of feedstocks and their respective produce It also outlines how to decide which method should be employed to remove sulfur from different feedstocks A practical and thorough discussion of the field Handbook of Refinery Desulfurization gives you a strong grasp of the various processes involved with industrial desulfurization while giving you pointers on which procedures to use under certain conditions Oil Xiaobing Li, Michael Molina, 2014-10-14 Despite ongoing efforts to find alternatives oil is still one of the most critical and valuable commodities on earth This two volume set provides extensive background information on key topics relating to oil profiles countries that are major producers and consumers of oil and examines relevant political issues Aside from air and water oil is perhaps the most valuable natural resource Oil supplies the tremendous energy needs of the modern world What exactly is oil where does it come from how does it get consumed and who is using it This encyclopedia provides clear answers to these questions and more offering students entries on the fundamentals of the oil industry and profiles of the countries that play a major role in oil production and consumption Volume 1 presents topical entries on critical concepts key terms major oil spills and disasters and important organizations and individuals relating to the oil industry Entries define terms such as barrel and reserve cover incidents such as the BP oil spill and explain the significance of organizations such as OPEC The second volume spotlights specific countries that are major producers consumers exporters and importers of oil from the United States to Russia to Saudi Arabia to Venezuela Each profile shows readers the importance of oil in that country through a brief background history data on its oil usage or production information about major trading partners and an explanation of political issues

Handbook of Heavy Oil Properties and Analysis James G. Speight, 2023-05-12 Handbook of Heavy Oil Properties and Analysis Understand the future of oil production with this comprehensive guide Heavy oil also known as viscous oil is oil too viscous to flow normally from wells and reservoirs In recent decades it has become increasingly important as a source of liquid oil for use in industrial processes This places all the greater importance on proper analysis of heavy oil and its properties so that it can be more effectively refined and deployed to meet ever growing energy needs Handbook of Heavy Oil Properties and Analysis provides a comprehensive introduction to the analysis of viscous oil and its properties It discusses the full range of tests and analytical procedures by which the behavior and refinability of viscous oil samples can be predicted and connects theoretical knowledge to refinery practice throughout Additionally its incorporation of the latest environmental regulations makes it an invaluable resource Readers will also find Detailed coverage of both physical properties and chemical composition of heavy oil An author more than fifty years of experience in the process industries Discussion of new methods for determining instability and incompatibility This book is a useful reference for scientists and engineers in the oil refining industries chemists and researchers in heavy oil and adjacent industries and government officials and regulators **Refinery Feedstocks** James G. Speight, 2020-10-20 Over the last several decades the petroleum industry

has experienced significant changes in resource availability petro politics and technological advancements dictated by the changing quality of refinery feedstocks However the dependence on fossil fuels as the primary energy source has remained unchanged Refinery Feedstocks addresses the problems of changing feedstock availability and properties the refining process and solids deposition during refining This book will take the reader through the various steps that are necessary for crude oil evaluation and refining including the potential for the use of coal liquids shale oil and non fossil fuel materials biomass as refinery feedstocks Other features Describes the various types of crude oil and includes a discussion of extra heavy oil and tar sand bitumen Includes basic properties and specifications of crude oil and the significance in refinery operations This book is a handy reference for engineers scientists and students who want an update on crude oil refining and on the direction the industry must take to assure the refinability of various feedstocks and the efficiency of the refining processes in the next fifty years Non technical readers with help from the extensive glossary will also benefit from reading this book

Processing of Heavy Crude Oils Ramasamy Marappa Gounder,2019 Unconventional heavy crude oils are replacing the conventional light crude oils slowly but steadily as a major energy source Heavy crude oils are cheaper and present an opportunity to the refiners to process them with higher profit margins However the unfavourable characteristics of heavy crude oils such as high viscosity low API gravity low H C ratio chemical complexity with high asphaltenes content high acidity high sulfur and increased level of metal and heteroatom impurities impede extraction pumping transportation and processing Very poor mobility of the heavy oils due to very high viscosities significantly affects production and transportation Techniques for viscosity reduction drag reduction and in situ upgrading of the crude oil to improve the flow characteristics in pipelines are presented in this book The heavier and complex molecules of asphaltenes with low H C ratios present many technological challenges during the refining of the crude oil such as heavy coking on catalysts Hydrogen addition and carbon removal are the two approaches used to improve the recovery of value added products such as gasoline and diesel In addition the heavy crude oil needs pre treatment to remove the high levels of impurities before the crude oil can be refined This book introduces the major challenges and some of the methods to overcome them

Sustainable Aviation Fuels Michael P. Wolcott,Nathan Brown,William Goldner,Zia Haq,Season Hoard,Johnathan Holladay,Kristin C.

Lewis,2022-11-08 **Upgrading Oilsands Bitumen and Heavy Oil** Murray R. Gray,2015-03-11 State of the art oilsands processing technologies from laboratory to full commercial scale

Handbook of Petroleum Product Analysis James G. Speight,2015-02-02 Introduces the reader to the production of the products in a refinery Introduces the reader to the types of test methods applied to petroleum products including the need for specifications Provides detailed explanations for accurately analyzing and characterizing modern petroleum products Rewritten to include new and evolving test methods Updates on the evolving test methods and new test methods as well as the various environmental regulations are presented

Coal-Fired Power Generation Handbook James G. Speight,2021-02-17 Rund ein Viertel des weltweiten

Energieverbrauchs wird mit Kohle bestritten und von der weltweit geforderten Kohle werden ca 65 % an Stromerzeuger und 33 % an industrielle Abnehmer geliefert wobei der Rest überwiegend an Verbraucher im privaten und gewerblichen Bereich geht Es wird erwartet dass der Anteil der Kohle am gesamten Energieverbrauch weltweit bis 2035 auf knapp 30 % steigt Dieses Werk beschreibt die Herausforderungen und die einzelnen Schritte bei der Energieproduktion aus Kohle und befasst sich mit den Herausforderungen beim Umgang mit Umweltschutzbedenken gegen die Nutzung von Kohle in den Kraftwerken der Zukunft Es werden neue Technologien beschrieben mit denen die Freisetzung von schädlichen Schwefel Stickstoff und Quecksilberpartikeln bei der Verbrennung von Kohle zur Stromerzeugung nahezu eliminiert werden kann Außerdem wird beschrieben mit welchen Technologien sich die von den Kohlekraftwerken ausgestoßenen Treibhausgase abscheiden lassen und wie es möglich ist zu verhindern dass diese Emissionen zur globalen Erwärmung beitragen Das Buch ist von einem der weltweit führenden Energieexperten verfasst und ist ein absolutes Muss für alle Ingenieure Wissenschaftler und Studierenden in diesem Fachbereich denn es dient als wertvolles Nachschlagewerk und Leitfaden in einem sich rasch verändernden Umfeld

Water Pollution XI C. A. Brebbia, 2012 Water pollution is by necessity an interdisciplinary field involving scientists and professionals with a wide range of expertise It also transcends national borders since the contamination of water resources is a problem of global concern The International Conference on Modelling Monitoring and Prevention of Water Pollution held biennially in different locations around the world has been providing a forum for the presentation and discussion of the latest developments in the field since 1991 The papers in this volume present some of the latest results in this important field work which is essential to understanding the nature of the problem and for proposing appropriate solutions which may eventually provide the guidelines required to take steps towards the remediation or recovery of water resources *Water Pollution XI* contains papers presented at the latest Eleventh Conference and includes the following topics Water quality Groundwater and aquifer issues Environmental monitoring and control Remediation Pollution prevention Lakes and rivers Agricultural contamination Wastewater treatment and management Offshore pollution and oil spills Emerging technologies Biosensors Health risk studies Nano particles Socio economic costs Biosystems Education and training **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

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