

CHEMICAL INDUSTRIES/140

# Handbook of Refinery Desulfurization

Nour Shafik El-Gendy • James G. Speight

# Handbook Of Refinery Desulfurization Chemical Industries

**James G. Speight**



## **Handbook Of Refinery Desulfurization Chemical Industries:**

**Handbook of Refinery Desulfurization** Nour Shaf ik El-Gendy, James G. Speight, 2016

**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

**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

**Chemical Reaction Engineering and Reactor Technology, Second Edition** Tapio O. Salmi, Jyri-Pekka Mikkola, Johan P. Wörnå, 2019-07-11 The role of the chemical reactor is crucial for the industrial conversion of raw materials into products and numerous factors must be considered when selecting an appropriate and efficient chemical reactor Chemical Reaction Engineering and Reactor Technology defines the qualitative aspects that affect the selection of an industrial chemical reactor and couples various reactor models to case specific kinetic expressions for chemical processes Thoroughly revised and updated this much anticipated Second Edition addresses the rapid academic and industrial development of chemical reaction engineering Offering a systematic development of the chemical reaction engineering concept this volume explores essential stoichiometric kinetic and thermodynamic terms needed in the analysis of chemical reactors homogeneous and heterogeneous reactors reactor optimization aspects residence time distributions and non ideal flow conditions in industrial reactors solutions of algebraic and ordinary differential equation systems gas and liquid phase diffusion coefficients and gas

film coefficients correlations for gas liquid systems solubilities of gases in liquids guidelines for laboratory reactors and the estimation of kinetic parameters The authors pay special attention to the exact formulations and derivations of mass energy balances and their numerical solutions Richly illustrated and containing exercises and solutions covering a number of processes from oil refining to the development of specialty and fine chemicals the text provides a clear understanding of chemical reactor analysis and design Introduction to Process Control Jose A. Romagnoli,Ahmet Palazoglu,2020-07-14 Introduction to Process Control Third Edition continues to provide a bridge between traditional and modern views of process control by blending conventional topics with a broader perspective of integrated process operation control and information systems Updated and expanded throughout this third edition addresses issues highly relevant to today s teaching of process control Discusses smart manufacturing new data preprocessing techniques and machine learning and artificial intelligence concepts that are part of current smart manufacturing decisions Includes extensive references to guide the reader to the resources needed to solve modeling classification and monitoring problems Introduces the link between process optimization and process control optimizing control including the effect of disturbances on the optimal plant operation the concepts of steady state and dynamic back off as ways to quantify the economic benefits of control and how to determine an optimal transition policy during a planned production change Incorporates an introduction to the modern architectures of industrial computer control systems with real case studies and applications to pilot scale operations Analyzes the expanded role of process control in modern manufacturing including model centric technologies and integrated control systems Integrates data processing reconciliation and intelligent monitoring in the overall control system architecture Drawing on the authors combined 60 years of teaching experiences this classroom tested text is designed for chemical engineering students but is also suitable for industrial practitioners who need to understand key concepts of process control and how to implement them The text offers a comprehensive pedagogical approach to reinforce learning and presents a concept first followed by an example allowing students to grasp theoretical concepts in a practical manner and uses the same problem in each chapter culminating in a complete control design strategy A vast number of exercises throughout ensure readers are supported in their learning and comprehension Downloadable MATLAB toolboxes for process control education as well as the main simulation examples from the book offer a user friendly software environment for interactively studying the examples in the text These can be downloaded from the publisher s website Solutions manual is available for qualifying professors from the publisher Transport Phenomena Fundamentals Joel L. Plawsky,2020-02-27 The fourth edition of Transport Phenomena Fundamentals continues with its streamlined approach to the subject based on a unified treatment of heat mass and momentum transport using a balance equation approach The new edition includes more worked examples within each chapter and adds confidence building problems at the end of each chapter Some numerical solutions are included in an appendix for students to check their comprehension of key concepts Additional resources online include exercises that can be

practiced using a wide range of software programs available for simulating engineering problems such as COMSOL Maple Fluent Aspen Mathematica Python and MATLAB lecture notes and past exams This edition incorporates a wider range of problems to expand the utility of the text beyond chemical engineering The text is divided into two parts which can be used for teaching a two term course Part I covers the balance equation in the context of diffusive transport momentum energy mass and charge Each chapter adds a term to the balance equation highlighting that term's effects on the physical behavior of the system and the underlying mathematical description Chapters familiarize students with modeling and developing mathematical expressions based on the analysis of a control volume the derivation of the governing differential equations and the solution to those equations with appropriate boundary conditions Part II builds on the diffusive transport balance equation by introducing convective transport terms focusing on partial rather than ordinary differential equations The text describes paring down the full microscopic equations governing the phenomena to simplify the models and develop engineering solutions and it introduces macroscopic versions of the balance equations for use where the microscopic approach is either too difficult to solve or would yield much more information that is actually required The text discusses the momentum Bernoulli energy and species continuity equations including a brief description of how these equations are applied to heat exchangers continuous contactors and chemical reactors The book introduces the three fundamental transport coefficients the friction factor the heat transfer coefficient and the mass transfer coefficient in the context of boundary layer theory Laminar flow situations are treated first followed by a discussion of turbulence The final chapter covers the basics of radiative heat transfer including concepts such as blackbodies graybodies radiation shields and enclosures

*Petroleum Processing Handbook* John J. McKetta Jr, 1992-04-30 A reference that details the pertinent chemical reactions and emphasizes the plant design and operations of petroleum processing procedures The handbook is divided into four sections products refining manufacturing processes and treating processes Wherever possible shortcut methods of calculation

Biodesulfurization in Petroleum Refining Nour Shafik El-Gendy, Hussein Mohamed Nabil Nassar, 2018-10-02 From basic tenets to the latest advances this is the most comprehensive and up to date coverage of the process of biodesulfurization in the petroleum refining industry Petroleum refining and process engineering is constantly changing No new refineries are being built but companies all over the world are still expanding or re purposing huge percentages of their refineries every year year after year Rather than building entirely new plants companies are spending billions of dollars in the research and development of new processes that can save time and money by being more efficient and environmentally safer Biodesulfurization is one of those processes and nowhere else it is covered more thoroughly or with more up to date research of the new advances than in this new volume from Wiley Scrivener Besides the obvious benefits to biodesulfurization there are new regulations in place within the industry with which companies will over the next decade or longer spend literally tens if not hundreds of billions of dollars to comply Whether for the veteran engineer needing to update

his or her library the beginning engineer just learning about biodesulfurization or even the student in a chemical engineering class this outstanding new volume is a must have Especially it covers also the bioupgrading of crude oil and its fractions biodenitrogenation technology and application of nanotechnology on both biodesulfurization and biodenitrogenation technologies     *Synthetics, Mineral Oils, and Bio-Based Lubricants* Leslie R. Rudnick, 2020-01-29 Highlighting the major economic and industrial changes in the lubrication industry since the first edition *Synthetics Mineral Oils and Bio Based Lubricants Chemistry and Technology Third Edition* highlights the major economic and industrial changes in the lubrication industry and outlines the state of the art in each major lubricant application area Chapters cover the use of lubricant fluids growth or decline of market areas and applications potential new applications production capacities and regulatory issues including biodegradability toxicity and food production equipment lubrication The highly anticipated third edition features new and updated chapters including those on automatic and continuously variable transmission fluids fluids for food grade applications oil soluble polyalkylene glycols functional bio based lubricant base stocks farnesene derived polyolefins estolides bio based lubricants from soybean oil and trends in construction equipment lubrication Features include Contains an index of terms acronyms and analytical testing methods Presents the latest conventions for describing upgraded mineral oil base fluids Considers all the major lubrication areas engine oils industrial lubricants food grade applications greases and space age applications Includes individual chapters on lubricant applications such as environmentally friendly disk drive and magnetizable fluids for major market areas around the globe In a single unique volume *Synthetics Mineral Oils and Bio Based Lubricants Chemistry and Technology Third Edition* offers property and performance information of fluids theoretical and practical background to their current applications and strong indicators for global market trends that will influence the industry for years to come     *Bubbles, Drops, and Particles in Non-Newtonian Fluids* Raj P. Chhabra, Swati A.

Patel, 2023-08-31 The third edition of *Bubbles Drops and Particles in Non Newtonian Fluids* provides comprehensive coverage of the scientific foundations and the latest advances in particle motion in non Newtonian media Thoroughly updating and expanding its best selling predecessor this edition addresses numerical and experimental developments in non Newtonian particulate systems It includes a new chapter on heat transfer in non Newtonian fluids in the free and mixed convection regimes and thus covers forced convection regimes separately in this edition Salient Features Demonstrates how dynamic behavior of single particles can yield useful information for modeling transport processes in complex multiphase flows Addresses heat transfer in Generalized Newtonian Fluid GNF visco plastic and visco elastic fluids throughout the book and outlines potential strategies for heat transfer enhancement Provides a new detailed section on the effect of confinement on heat transfer from bluff bodies in non Newtonian fluids Written in a clear and concise manner this book remains an excellent handbook and reference It is essential reading for students and researchers interested in exploring particle motion in different types of non Newtonian systems encountered in disciplines across engineering and the sciences     *Petroleum*

*and Gas Field Processing* Hussein K. Abdel-Aal, Mohamed A. Aggour, Mohamed A. Fahim, 2015-09-18 Many oil production processes present a significant challenge to the oil and gas field processing facilities and equipment design. The optimization of the sequential operations of handling the oil gas mixture can be a major factor in increasing oil and gas production rates and reducing operating costs. *Petroleum and Gas Field Processing* provides an all inclusive guide to surface petroleum operations and solves these and other problems encountered in the field processing of oil and gas. Fully revised and updated to reflect major changes over the past decade or so, this second edition builds on the success attained in the first edition. It delivers an expanded and updated treatment that covers the principles and procedures related to the processing of reservoir fluids for the separation, handling, treatment and production of quality petroleum oil and gas products. With five new chapters, this second edition covers additional subjects in particular natural gas economics and profitability, oil field chemicals and piping and pumps. The book also contains worked out examples and case studies from a variety of oil field operations.

*Rules of Thumb for Petroleum Engineers* James G. Speight, 2017-02-28 The most comprehensive and thorough reference work available for petroleum engineers of all levels. Finally there is a one stop reference book for the petroleum engineer which offers practical, easy to understand responses to complicated technical questions. This is a must have for any engineer or non engineer working in the petroleum industry, anyone studying petroleum engineering or any reference library. Written by one of the most well known and prolific petroleum engineering writers who has ever lived, this modern classic is sure to become a staple of any engineer's library and a handy reference in the field. Whether open on your desk or on the hood of your truck at the well or on an offshore platform, this is the only book available that covers the petroleum engineer's rules of thumb that have been compiled over decades. Some of these rules until now have been unspoken but everyone knows while others are meant to help guide the engineer through some of the more recent breakthroughs in the industry's technology such as hydraulic fracturing and enhanced oil recovery. The book covers every aspect of crude oil, natural gas, refining, recovery and any other area of petroleum engineering that is useful for the engineer to know or to be able to refer to, offering practical solutions to everyday engineering problems and a comprehensive reference work that will stand the test of time and provide aid to its readers. If there is only one reference work you buy in petroleum engineering, this is it. **Guide to the**

**Practical Use of Chemicals in Refineries and Pipelines** Johannes Karl Fink, 2016-05-09 *Guide to Practical Use of Chemicals in Refineries and Pipelines* delivers a well rounded collection of content, references and patents to show all the practical chemical choices available for refinery and pipeline usage along with their purposes, benefits and general characteristics. Covering the full spectrum of downstream operations, this reference solves the many problems that engineers and managers currently face, including corrosion, leakage in pipelines and pretreatment of heavy oil feedstocks, something that is of growing interest with today's unconventional activity. Additional coverage on special refinery additives and justification on why they react the way they do with other chemicals and feedstocks is included along with a reference list of

acronyms and an index of chemicals that will give engineers and managers the opportunity to recognize new chemical solutions that can be used in the downstream industry Presents tactics practitioners can use to effectively locate and utilize the right chemical application specific to their refinery or pipeline operation Includes information on how to safely perform operations with coverage on environmental issues and safety including waste stream treatment and sulfur removal Helps readers understand the composition and applications of chemicals used in oil and gas refineries and pipelines along with where they should be applied and how their structure interacts when mixed at the refinery

**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

**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 Handbook of Ionic Liquids

Sanchayita Rajkhowa, Pardeep Singh, Anik Sen, Jyotirmoy Sarma, 2024-01-03 Handbook of Ionic Liquids A one stop reference for researchers interested in ionic liquids and their applications Handbook of Ionic Liquids Fundamentals Applications and Sustainability constitutes an overview of the latest advances in ionic liquid chemistry It offers a comprehensive summary of the development history of ionic liquids their design and the diverse array of applications including green and sustainable synthesis catalysis drug development and medicine biotechnology materials science and electrochemistry The authors explain a variety of processes used to develop novel materials with ionic liquids and describe likely future developments using practical examples taken from contemporary research and development in the field The book includes discussions of biomass conversion CO<sub>2</sub> capture and more You ll also discover A thorough introduction to the theory of ionic liquids as well as their different types and recycling methods Comprehensive explorations of the physico chemical properties of ionic liquids Practical discussions of ionic liquid synthesis and analysis including green synthesis and heterocyclic chemistry applications Summary of the use of ionic liquids in materials science including polymers energy conversion and storage devices Perfect for organic catalytic physical analytical and environmental chemists Handbook of Ionic Liquids Fundamentals Applications and Sustainability will also benefit electrochemists materials scientists and biotechnologists with an interest in ionic liquids and their application Lubricant Additives Leslie R. Rudnick, 2017-07-12 This indispensable book describes lubricant

additives their synthesis chemistry and mode of action All important areas of application are covered detailing which lubricants are needed for a particular application Laboratory and field performance data for each application is provided and the design of cost effective environmentally friendly technologies is fully explored This edition includes new chapters on chlorohydrocarbons foaming chemistry and physics antifoams for nonaqueous lubricants hydrogenated styrene diene viscosity modifiers alkylated aromatics and the impact of REACH and GHS on the lubricant industry **Biomass Processes**

**and Chemicals** James G. Speight, 2022-02-13 Biomass Processes and Chemicals is written to assist the reader in understanding the options available for the production of chemicals from biomass Petroleum based and natural gas based chemicals are well established products that have served industry and consumers for more than one hundred years However time is running out and natural gas and petroleum are now being depleted Thus the need for alternative technologies to produce chemicals is necessary Chemicals produced from sources are now coming into place for the establishment of a chemicals from biomass industry hence this book covers these advancements Introduces a variety of biomass feedstocks as sources of chemicals Includes accurate background science and technology for technological options Features a very thorough approach for topical matters Written in a highly structured way by a globally recognized authority in the field

**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

**Hydrotreating and Hydrocracking Processes in Refining Technology** James G. Speight, 2023-09-29 Written by an industry expert with over 50 years of experience this book details the various solvent processes that are used in crude oil refineries Providing an in depth exploration of the different types of processes as well as the types of feedstocks that can be used with them this book prepares readers for changes as the industry evolves Key Features Describes feedstock evaluation and the effects of elemental chemical and fractional composition Contains an extensive glossary of all related concepts in hydrotreating and hydrocracking processes Considers next generation processes and developments This book is an essential guide for engineers scientists and students in the field of petroleum processing and refining technology including professionals technicians management personnel and academics

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## **Table of Contents Handbook Of Refinery Desulfurization Chemical Industries**

1. Understanding the eBook Handbook Of Refinery Desulfurization Chemical Industries
  - The Rise of Digital Reading Handbook Of Refinery Desulfurization Chemical Industries
  - Advantages of eBooks Over Traditional Books
2. Identifying Handbook Of Refinery Desulfurization Chemical Industries
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Handbook Of Refinery Desulfurization Chemical Industries
  - User-Friendly Interface
4. Exploring eBook Recommendations from Handbook Of Refinery Desulfurization Chemical Industries
  - Personalized Recommendations
  - Handbook Of Refinery Desulfurization Chemical Industries User Reviews and Ratings
  - Handbook Of Refinery Desulfurization Chemical Industries and Bestseller Lists
5. Accessing Handbook Of Refinery Desulfurization Chemical Industries Free and Paid eBooks
  - Handbook Of Refinery Desulfurization Chemical Industries Public Domain eBooks
  - Handbook Of Refinery Desulfurization Chemical Industries eBook Subscription Services
  - Handbook Of Refinery Desulfurization Chemical Industries Budget-Friendly Options

6. Navigating Handbook Of Refinery Desulfurization Chemical Industries eBook Formats
  - ePub, PDF, MOBI, and More
  - Handbook Of Refinery Desulfurization Chemical Industries Compatibility with Devices
  - Handbook Of Refinery Desulfurization Chemical Industries Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Handbook Of Refinery Desulfurization Chemical Industries
  - Highlighting and Note-Taking Handbook Of Refinery Desulfurization Chemical Industries
  - Interactive Elements Handbook Of Refinery Desulfurization Chemical Industries
8. Staying Engaged with Handbook Of Refinery Desulfurization Chemical Industries
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Handbook Of Refinery Desulfurization Chemical Industries
9. Balancing eBooks and Physical Books Handbook Of Refinery Desulfurization Chemical Industries
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Handbook Of Refinery Desulfurization Chemical Industries
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Handbook Of Refinery Desulfurization Chemical Industries
  - Setting Reading Goals Handbook Of Refinery Desulfurization Chemical Industries
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Handbook Of Refinery Desulfurization Chemical Industries
  - Fact-Checking eBook Content of Handbook Of Refinery Desulfurization Chemical Industries
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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