
Opito Petroleum Processing Technology

Fundamentals of Oil and Gas Processing
 Handbook of Petroleum Refining Processes, Fourth Edition
 An Essential Guidebook On Petroleum Refining Business
 Oil Refineries in the 21st Century
 Petroleum Processing Handbook
 Gains in Oil and Gas Production Refining and Utilization Technology
 Handbook of Petroleum Processing
 Petroleum Refining
 Refining Processes Handbook
 Practical Advances in Petroleum Processing
 Technical Progress and Profits
 Cryogenic Valves for Liquefied Natural Gas Plants
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 Refinery Feedstocks
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 Petroleum Refining in Nontechnical Language
 Equipment and Components in the Oil and Gas Industry Volume 1
 The Refinery of the Future
 PETROLEUM REFINING TECHNOLOGY
 Oil and Gas Processing Handbook
 Petroleum Refining and Oil Well Drilling
 The Chemistry of Petroleum Processing and Extraction
 Handbook of Petroleum Refining Processes
 Elements of Petroleum Processing
 Thermal and Catalytic Processing in Petroleum Refining Operations
 Fundamentals of Petroleum and Petrochemical Engineering
 Petroleum Refining and Technology
 Petroleum Refining Processes
 Human Factors Handbook for Process Plant Operations
 Surface Operations in Petroleum Production, I
 Oil Shale Processing Technology

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LEWIS CLINTON

Fundamentals of Oil and Gas Processing Elsevier
 The supply of petroleum continues to dwindle at an alarming rate, yet it is the source of a range of products — from gasoline and diesel to plastic, rubber, and synthetic fiber. Critical to the future of this commodity is that we learn to use it more judiciously and efficiently. *Fundamentals of Petroleum and Petrochemical Engineering* provides a holistic understanding of petroleum and petrochemical products manufacturing, presented in a step-by-step sequence of the entire supply chain. Filled with crucial information relevant to a range of applications, the book covers topics such as: The essential preliminaries for the exploration and production of crude petroleum oil and gas
 Analysis of crude oil and its petroleum products
 The processing of petroleum in refineries
 The fundamentals of lubricating oil and grease
 Petrochemicals — their raw materials and end products, and manufacturing principles of industrially important products
 Theories and problems of unit operations and the processes involved in refineries and petrochemical plants
 Automatic

operations in plants Start up, shutdown, maintenance, fire, and safety operations
 Commercial and managerial activities necessary for the ultimate success of a refining or manufacturing business
 Due to the advancement of technology, new petrochemicals are being invented and will continue to be relevant to the petroleum industry in the near future. Those entering the industry need a firm grasp of the basics as the field continues to open up new avenues of possibility, while at the same time being cognizant of the challenges that exist through the heightened focus on sustainable energy.

Handbook of Petroleum Refining Processes, Fourth Edition CRC Press

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.

An Essential Guidebook On Petroleum Refining Business CRC Press LLC

This fully revised resource presents the latest technologies and processes for petroleum refining from the world's leading producers. Handbook of Petroleum Refining Processes has become a key reference in the chemical and petroleum engineering markets. The book is unique in that it presents licensable technologies for the refining of petroleum and production of environmentally acceptable fuels and petrochemical intermediates. The new edition covers the gamut of global refining technologies in light of recent changes to the sources of these fuels, as well as the most up-to-date global environmental regulations. Contributions come 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.

Oil Refineries in the 21st Century Springer

Besides covering topics like catalytic cracking, hydrocracking, and alkylation, this volume has chapters on waste water treatment and the economics of managing or commissioning the design of a petroleum refinery. Found only in this volume is material on operating a jointly owned and operated refinery. (Over the last decade, the ownership of many refineries has shifted to small companies, from the large, integrated companies. Because of this shift, many refineries are now jointly owned and operated.) Filled with handy process flow diagrams, this volume is the only reference that a chemical engineer or process manager in a petroleum refinery needs for answers to everyday

process and operations questions. * Covers the technologies and operations of petroleum refineries * Provides material on operating a jointly owned and operated refinery * Gives readers a comprehensive introduction to petroleum refining, as well as a full reference to engineers in the field

Petroleum Processing Handbook CRC Press

* 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, Mobil, Shell, Exxon, UOP, and Texaco * Covers the very latest technologies in the field of petroleum refining processes * Completely updated 3rd Edition features 50% all new material

Gains in Oil and Gas Production Refining and Utilization Technology CRC Press

This is the first part of a two-volume work which comes at a time when oil producers are taking a close look at the economy of oilfield operation and redesign of production technology to improve ultimate recovery. The very high cost, and risk, of the search for new oilfields demands the re-evaluation of production technology and reservoir engineering to improve the production characteristics of existing oilfields. It is the aim of this work that it will be instrumental in the improvement of the global enhancement of oil production and ultimate recovery. It is the outcome of extensive collaboration between experts in petroleum who have devoted their time to the lucid expression of the knowledge that they have acquired through experience in the evaluation and solution of field problems, and development of economic field processes. Oil production companies have been generous in their cooperation through assistance and encouragement to the authors and permission to publish data, designs and photographs. Together, the two books provide a detailed and comprehensive coverage of the subject. The physical and chemical properties of the fluids encountered by engineers in the field are clearly described. The properties, methods of separation, measurement, and transportation of these fluids (gases, condensate liquids derived from natural gas, crude oils and oilfield waters) are dealt with. Following a presentation of the fluids and their process technology, a series of chapters give a thorough discussion of every type of surface equipment that is encountered in the myriad aspects of oilfield operations, ranging from waterflooding to new enhanced oil recovery techniques. Included are all methods for pumping, water control, production logging and corrosion control. The coverage also extends to: well completion and work-over operations, methods for design and operation of underground gas storage, and a review of offshore technology. Surface Operations in Petroleum Production is therefore a comprehensive reference which will be invaluable for field production managers and engineers; as well as being an ideal text on production technology to complement the study of reservoir engineering.

Handbook of Petroleum Processing Elsevier

This book focuses on the various solvent processes that are used in crude oil refineries. It presents the differences between each type of process and discusses the types of feedstock that can be used for the processes. This accessible guide is written for managers, professionals, and technicians as well as graduate students transitioning into the refining industry. . Key Features: • Describes the various steps that are necessary for the solvent treatment of various feedstocks in crude oil refineries. Brings the reader up to date and adds more data. Provides an extensive glossary. Considers next-generation processes and developments.

Petroleum Refining CRC Press

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

Refining Processes Handbook Gulf Professional Publishing
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.

Practical Advances in Petroleum Processing Practical Advances in Petroleum Processing

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

Technical Progress and Profits Chichester ; Toronto : J. Wiley
Natural gas and liquefied natural gas (LNG) continue to grow as a part of the sustainable energy mix. While oil and gas companies look to lower emissions, one key refinery component that contributes up to 60% of emissions are valves, mainly due to poor design, sealing, and testing. *Cryogenic Valves for Liquefied Natural Gas Plants* delivers a much-needed reference that focuses on the design, testing, maintenance, material selection, and standards needed to stay environmentally compliant at natural gas refineries. Covering technical definitions, case studies, and Q&A, the reference includes all ranges of natural gas compounds, including LPG, CNG, NGL, and PNG. Key design considerations are included that are specific for cryogenic services, including a case study on cryogenic butterfly valves. The material selection process can be more complex for cryogenic services, so the author goes into more detail about materials that adhere to cryogenic temperature resistance. Most importantly, testing of valves is covered in depth, including shell test, closure or seat test, and thermal shock tests, along with tactics on how to prevent dangerous cryogenic leaks, which are very harmful to the environment. The book is a vital resource for today's natural gas engineers. Teaches LNG valve design, including sealing selection, wall thickness calculation of the valve body and bonnet, and proper material selection Provides tactics on how to prevent cryogenic leaks with compliant valve testing Applies natural gas calculations that will better support the LNG supply chain Enables readers to understand cryogenic valve standards, including EN, ISO, and MSS SP

Cryogenic Valves for Liquefied Natural Gas Plants Independently Published

This book serves as a textbook for undergraduate and graduate courses on petroleum refining and production technologies. The book explains in step-by-step detail all aspects of petroleum and crude oil operations, i.e., production, transportation, characteristics of crude oil, distillation, refining, petroleum products and their quality control and testing, physical and conversion processes, petrochemical products, corrosion control, environmental pollution, and design and operation of petroleum processing equipment. The book is written in an easy-to-understand manner and includes illustrations. It covers specification of petroleum products along with ASTM standards.

The book also offers a rich pedagogical makeup with summaries, case studies, and example problems and solutions. The book can also be used for professional training programs targeted at the petroleum and crude oil industry.

Handbook of Petroleum Refining John Wiley & Sons
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

Solvent Processes in Refining Technology National Academies Press

Equipment and Components in the Oil and Gas Industry Volume 1: Equipment provides an overview of the equipment used in the oil and gas industry, as well as various stages of the oil and gas industry, including geology, exploration, drilling, transportation, and refining. Using practical industry examples and an accessible approach, the book is a key reference point for those seeking to learn more about the industry. The equipment used in the oil and gas industry is wide ranging, from drilling equipment and wellhead equipment, such as casings, tubing, and wellhead Christmas trees, to equipment for the transportation of fluids and gases, such as pumps and compressors. The book presents a simplified method to choose the correct equipment for each task, as well as covering the selection of heat exchangers and storage tanks. Finally, this book covers turbines, motors, and other prime movers, alongside a flare system for disposing of unwanted or waste gases in oil and gas refineries and petrochemical plants. This book will be of interest to mechanical and chemical engineers working in the oil and gas industry.

Used Oil Re-refining Nova Science Publishers
Human Factors Handbook for Process Plant Operations Provides clear and simple instructions for integrating Human Factors principles and practices in the design of processes and work tasks Human Factors, the science of interaction between humans and other elements of a system, draws from disciplines such as psychology, ergonomics, anthropometrics, and physiology to understand how and why people behave and perform as they do—and how best to support them in performing tasks. The goals of the Human Factors approach are to improve human reliability, minimize the risk from human error, and optimize the working environment, human wellbeing, and overall system performance. *Human Factors Handbook for Process Plant Operations* guides supervisors, managers, and engineers on incorporating Human Factors principles and practices into plant maintenance and operations. With thorough and accessible coverage of all Human Factors topics of relevance to process industries, this easy-to-use handbook uses real-world anecdotes and case studies to demonstrate effective training and learning, task planning, communications, emergency response, risk and error management, and more. Throughout the text, the authors offer

valuable insights into why people make mistakes while providing advice on how to help workers perform their process operational tasks successfully. Explains all essential Human Factors concepts and knowledge with clear descriptions and illustrative examples Offers actionable advice and models of good practice that can be applied to design, process operations, start-ups and shut-downs, and maintenance Addresses job aids, equipment design, competence, task support, non-technical skills, working with contractors, and managing change Discusses how lack of Human Factors considerations during the engineering design phase can adversely affect safety and performance Describes how to use indicators to both recognize and learn from human error and performance issues Written by highly experienced operating and maintenance personnel, *Human Factors Handbook for Process Plant Operations* is an indispensable resource for everyone involved with defining, planning, training, and managing process operations, maintenance, and emergency response in the food, pharmaceutical, chemical, petroleum, and refining industries. The missions of both the CCPS and EI include developing and disseminating knowledge, skills and good practices to protect people, the environment, and property by bringing the best knowledge and practices to industry, academia, governments and the public around the world through collective wisdom, tools, training and expertise. The CCPS, an industrial technology alliance of the American Institute of Chemical Engineers (AIChE), has been at the forefront of documenting and sharing important process safety risk assessment methodologies for more than 35 years and has published over 100 books in its process safety guidelines and process safety concept book series. The EI's Technical Work Program addresses the depth and breadth of the energy sector from fuels and fuels distribution to health and safety, sustainability and the environment. The EI program provides cost-effective, value-adding knowledge on key current and future international issues affecting those in the energy sector.

Petroleum Review CRC Press

The precipitation and deposition of solids are a major challenge in the production of oil and gas. Flow assurance solids are formed because of unavoidable changes in temperature, pressure and composition of the oil-gas-water flowstream, from reservoir conditions to processing conditions. The advent of subsea production and the increased exploitation of heavy crudes have made flow assurance issues dominant in ensuring efficient and safe exploitation of hydrocarbon assets. Five troublesome flow assurance solids are described in the book: asphaltene, paraffin wax, natural gas hydrate, naphthenate and inorganic scale. These big-five solids are presented in stand-alone chapters. Each chapter is designed to be readable without clutter. Derivations of equations and descriptions of supporting details are given in several appendices. The book is intended for professional engineers and natural scientist working in E&P companies, engineering companies, service companies and specialized companies. An understanding of the big-five solids is required throughout the lifetime of oil and gas assets, from early

development to abandonment. The technical, safety and environmental risks associated with deposition problems in near-wellbore formations, production tubing, wellhead equipment, flowlines and processing facilities, are relevant for decisions in the oil and gas industry and in outside regulatory and financial entities.

Petroleum Refining CRC Press

The book includes: Basic information of oil and gas treatment, including process calculations. Gas properties, gas calculations, and process vessel sizing and selection. Operation and design of separators, heater treaters, desalters, stabilization and sweetening facilities. Basic of fluid measurement, process instrumentation and control, and pressure relief systems. The book is very useful for Engineers, chemists, and technicians in oil and gas production and processing sections.

Safety Engineering in the Oil and Gas Industry CRC Press

This book on oil and gas processing discusses the various processes that are involved in petroleum refining such as distillation, dimerization and fluid cracking. Oil refineries can have different configurations depending on the end product. Such plants also require adequate storage facilities, electricity and cooling water for proper functioning. Those in search of information to further their knowledge will be greatly assisted by this book. The various sub-fields of oil and gas processing along with technological progress that have future implications are glanced at. This book is a vital tool for all researching or studying oil and gas processing as it gives incredible insights into emerging trends and concepts.

Hydrotreating and Hydrocracking Processes in Refining Technology Oxford University Press, USA

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.

Flow Assurance Solids in Oil and Gas Production Gulf Professional Publishing

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.

Best Sellers - Books :

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- [Chicka Chicka Boom Boom \(board Book\)](#)
- [Goodnight Moon By Margaret Wise Brown](#)
- [Flash Cards: Sight Words](#)
- [Never Lie: An Addictive Psychological Thriller By Freida Mcfadden](#)
- [The Untethered Soul: The Journey Beyond Yourself](#)
- [Twisted Games \(twisted, 2\)](#)
- [My First Learn-to-write Workbook: Practice For Kids With Pen Control, Line Tracing, Letters, And More!](#)

- [The Wonderful Things You Will Be](#)
- [Rich Dad Poor Dad: What The Rich Teach Their Kids About Money That The Poor And Middle Class Do Not! By Robert T. Kiyosaki](#)