

Oilfield Processing Of Petroleum Volume 2

Crude Oil

Practical Advances in Petroleum Processing Petroleum Refinery Process Economics Petroleum Refining: Crude oil, petroleum products, process flowsheets Handbook of Petroleum Processing Oilfield Processing of Petroleum: Crude oil Hydrocarbon Processing & Petroleum Refiner Petroleum and Gas Field Processing Fuels and Petroleum Processing Petroleum Processing Handbook Hydrocarbon Processing & Petroleum Refiner Elements of Petroleum Processing Petroleum Refining Petroleum and Gas Field Processing, Second Edition Petroleum Refinery Process Modeling Oilfield Processing of Petroleum. - 1: Natural Gas Thermal and Catalytic Processing in Petroleum Refining Operations Processing of Heavy Crude Oils Oilfield Processing of Petroleum: Natural gas Hydrocarbons Processing Handbook of Petroleum Refining Processes Chang Samuel Hsu Robert E. Maples Jean-Pierre Wauquier David S. J. Jones Francis S. Manning Hussein K. Abdel-Aal John J. McKetta Jr D. S. J. Jones James H. Gary Hussein K. Abdel-Aal Y. A. Liu James G. Speight Ramasamy Marappa Gounder Francis S. Manning Arlon R. Tussing Robert Meyers

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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

maples presents an organized look at yield data and properties of products from refinery processes how to use this information in performing various process economics studies and discusses operating and capital costs for economic evaluation of both single processes and complete refineries yield correlations are presented for all of the important commercially established petroleum refinery processes each accompanied by operating requirements and capital cost of a typical unit here the user has all of the information required to perform a preliminary economic evaluation for each process yield correlation a simplified process flow diagram and brief process description is given contents correlation methodology crude oils hydrocarbons and refinery products refinery processing overview energy resources and transportation fuels the environment and the refinery crude oil and residual oil processing solvent deasphalting visbreaking and aquaconversion delayed coking fluid coking flexicoking heavy distillate processing fluid catalytic and heavy oil cracking hydrocracking hydrotreating light distillate processing naphtha desulfurization catalytic reforming light hydrocarbon processing isomerization alkylation catalytic polymerization and dehydration oxygenates treating and other

auxiliary processes aromatics extraction hydrogen manufacture sour water stripping sweetening acid gas removal sulfur recovery tail gas cleanup water treatment and waste disposal blending process economics economics

in this first volume the reader will find collected and condensed the information needed to characterize analyze and evaluate crude oils from different origins and their corresponding petroleum cuts as well the characteristics and specifications of all the petroleum products along with their simplified process flowsheets are reviewed contents 1 composition of crude oils and petroleum products 2 fractionation and elemental analysis of crude oils and petroleum cuts 3 characterization of crude oils and petroleum fractions 4 methods for the calculation of hydrocarbon physical properties 5 characteristics of petroleum products for energy use motor fuels heating fuels 6 characteristics of non fuel petroleum products 7 standards and specifications of petroleum products 8 evaluation of crude oils 9 additives for motor fuels and lubricants 10 introduction to refining appendices principal characteristics of pure components principal standard test methods for petroleum products references index

this handbook describes and discusses the features that make up the petroleum refining industry it begins with a description of the crude oils and their nature it continues with the saleable products from the refining processes with a review of the modern day environmental impact there is a complete overview of the processes that make up the refinery with a brief history of the processes it also describes design technique operation and in the case of catalytic units the chemistry of the reaction routes these discussions are supported by calculation procedures and examples sufficient to enable good input to modern computer simulation packages the handbook also covers off sites and utilities as well as environmental and safety aspects relevant to the industry

covers process descriptions design method operating procedures and troubleshooting in great detail this text is the definitive source on its topic and contains numerous diagrams and appendices as well as case histories and review questions with numerical problems

the immediate product extracted from oil and gas wells consists of mixtures of oil gas and water that is difficult to transport requiring a certain amount of field processing this reference analyzes principles and procedures related to the processing of reservoir fluids for the separation handling treatment and production of quality petroleum oil and gas products it details strategies in equipment selection and system design field development and operation and process simulation and control to increase plant productivity and safety and avoid losses during purification treatment storage and export providing guidelines for developing efficient and economical treatment systems the book features solved design examples that demonstrate the application of developed design equations as well as review problems and exercises of key engineering concepts in petroleum field development and operation

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 calcula

uses a practical day to day approach regarding the operations of the petroleum industry organized to allow ease of reference and data searching it simplifies the complex subject of crude oil and its composition with easy to understand diagrams covers vacuum and atmospheric distillation the recovery of propane and butanes along with in depth descriptions of catalytic treating and reforming units each chapter details various calculation techniques used to define the aspects of every process and includes rules of thumb employed in plant operation and design

petroleum 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

crude oil is far from being one homogenous substance its physical characteristics differ depending on where the crude oil is found and those variations determine its usage and price many oil production processes present a significant challenge to the oil and gas field processing facilities fully revised and updated to reflect major changes over the past ten years this second edition offers thorough coverage of every sector in the field processing of produced crude oil along with its associated gas

a comprehensive review of the theory and practice of the simulation and optimization of the petroleum refining processes petroleum refinery process modeling offers a thorough review of how to quantitatively model key refinery reaction and fractionation processes the text introduces the basics of dealing with the thermodynamics and physical property predictions of hydrocarbon components in the context of process modeling the authors three experts on the topic outline the procedures and include the key data required for building reaction and fractionation models with commercial software the text shows how to filter through the extensive data available at the refinery and using plant data to begin calibrating available models and extend the models to include key fractionation sub models it provides a sound and informed basis to understand and exploit plant phenomena to improve yield consistency and performance in addition the authors offer information on applying models in an overall refinery context through refinery planning based on linear programming this important resource offers the basic information of thermodynamics and physical property predictions of hydrocarbon components in the context of process modeling uses the key concepts of fractionation lumps and physical properties to develop detailed models and workflows for atmospheric cdu and vacuum vdu distillation units discusses modeling fcc catalytic reforming and hydroprocessing units written for chemical engineers process engineers and engineers for measurement and control this resource explores the advanced simulation tools and techniques that are available to support experienced and aid new operators and engineers

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

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

this book describes oilfield processing and handling of natural gas in a direct easy to follow format process descriptions design methods operating procedures and troubleshooting are covered in detail this hands on reference will be useful to field practitioners and is an ideal training text petroleum engineers will gain a better understanding of surface operations between the wellhead and the point of custody transfer or transport from the production facilities

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 up and texaco covers the very latest technologies in the field of petroleum refining processes completely updated 3rd edition features 50 all new material

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