

Handbook Of Refinery Desulfurization Chemical Industries

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second edition expands and updates information on the technological aspects of refining heavy oils residua bitumen and other high sulfur feedstocks focuses on the range of next generation refining processes

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 su

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

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 biouprgrading of crude oil and its fractions biodenitrogenation technology and application of nanotechnology on both biodesulfurization and biodenitrogenation technologies

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

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

this book focuses on the various refinery processes that are used for gas cleaning operations by understanding the use of gas cleaning processes this book will satisfy the needs of engineers and scientists at all levels from academia to the refinery and help them understand the initial various processes this accessible guide is written for managers professionals and technicians as well as graduate students transitioning into the refining industry key features describes gas streams produced in a crude oil refinery and from non refinery feedstocks covers gas condensate gas from

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

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