

THE HYDROCARBON PROCESSING INDUSTRY IN A CHANGED GLOBAL ENVIRONMENT

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Hydrocarbon Processing Journal

Michael Rajnik



Hydrocarbon Processing Journal:

Hydrocarbon processing [electronic journal], 1966 Hydrocarbon Processing, 2007 September 1 2021 Since 1922 management and technical professionals from petroleum refining gas processing petrochemical chemical and engineer constructor companies throughout the world have turned to Hydrocarbon Processing for high quality technical and operating information Through its monthly magazine website and e newsletters Hydrocarbon Processing covers technological advances processes and optimization developments from throughout the global Hydrocarbon Processing Industry HPI Hydrocarbon Processing editors and writers provide real world case studies and practical information that readers can use to improve their companies operations and their own professional job skills taken from publisher web site **Preliminary Chemical Engineering Plant Design** W.D. Baasal, 1989-11-30 This reference covers both conventional and advanced methods for automatically controlling dynamic industrial processes **Hydrocarbon Processing**, 1986-04 **Handbook of Petroleum Processing** David S. J. Jones, Peter R. Pujadó, 2006-01-11 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 and continues with the saleable products from the refining processes with a review of the environmental impact There is a complete overview of the processes that make up the refinery with a brief history of those 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 input to modern computer simulation packages Centrifugal Compressors in Hydrocarbon Processing Industries Neetin Ghaisas, 2025-11-07 This book offers a unique perspective on the aerodynamic and mechanical design features of centrifugal compressors It provides detailed explanations of auxiliary systems to support engineering professionals involved in the specification application and selection of compression strings and packages The book covers the fundamentals of centrifugal compressor casing and internal design complemented by in depth analysis of impellers and rotors Chapters on surge detection and control couplings dry gas seals and their support systems and lubrication oil systems provide a comprehensive understanding of the underlying theory operational principles and design processes Topics such as lateral rotordynamics advanced torsional analysis shop testing specialized engineering analyses and condition monitoring address key knowledge based engineering parameters These are essential for achieving industry standard compliant designs optimal performance safety and long term reliability in service In addition to discussing conventional concrete foundations the chapter on machinery modularization introduces innovative installation strategies These include shifting significant portions of site work to module yards reducing material movement at job sites and lowering costs associated with construction and pre commissioning activities Machinery and process modules contribute to optimized plot layouts ultimately reducing the total installed cost of process plant facilities Comprehensive and detailed technical specifications for inquiries and purchases aim to eliminate guesswork misinterpretation and scope gaps Errors or omissions

in purchase orders can be costly and difficult to rectify during project execution The chapter on compressor specifications proposal evaluation and design coordination addresses these challenges using real world examples In light of global initiatives to reduce greenhouse gas emissions a dedicated chapter explores the process of capturing and storing carbon dioxide CO₂ It discusses the two primary compressor types used for CO₂ compression provides an overview of sequestration processes and current challenges and highlights new technologies that extend the life of compressor materials Configuration options for improved overall efficiency are also examined **Hydrocarbon Processing & Petroleum Refiner**, 1928

An Introduction to Industrial Chemistry C.A. Heaton, 2012-12-06 to the Third Edition Following the success of the first two editions of this book in which the core subject matter has been retained we have taken the opportunity to add substantial new material including an additional chapter on that most important activity of the chemical industry research and development Topical items such as quality safety and environmental issues also receive enhanced coverage The team of authors for this edition comprises both those revising and updating their chapters and some new ones The latter's different approach to the subject matter is reflected in the new titles Organisational Structures A Story of Evolution chapter 5 and Environmental Impact of the Chemical Industry chapter 9 The chapter on Energy retains its original title but different approach of the new authors is evident We have updated statistics and tables wherever possible and expanded the index We hope readers find the brief pen pictures of authors to be interesting It is worth stressing again that this book is designed to be used with its companion volume The Chemical Industry 2nd Edition ed Alan Heaton referred to as Volume 2 for a complete introduction to the chemical industry Thanks are due to all contributors and to my wife Joy for typing my contributions *Thermal and Catalytic Processes in Petroleum Refining* Serge Raseev, 2003-02-26 This text examines the thermal and catalytic processes involved in the refining of petroleum including visbreaking coking pyrolysis catalytic cracking oligomerization alkylation hydrofining hydroisomerization hydrocracking and catalytic reforming It analyzes the thermodynamics reaction mechanisms and kinetics of each process as well as **Petrochemical Economics** Duncan Seddon, 2010 This compendium gives an overview of the technologies and economics in the production of olefins in the petrochemical industries It highlights the options and costs for producing olefins using different technologies and different feedstocks at a time when the cost of carbon dioxide emissions are set to be included in the production cost Industry professionals engineers research scientists and financiers will find this title a valuable resource

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