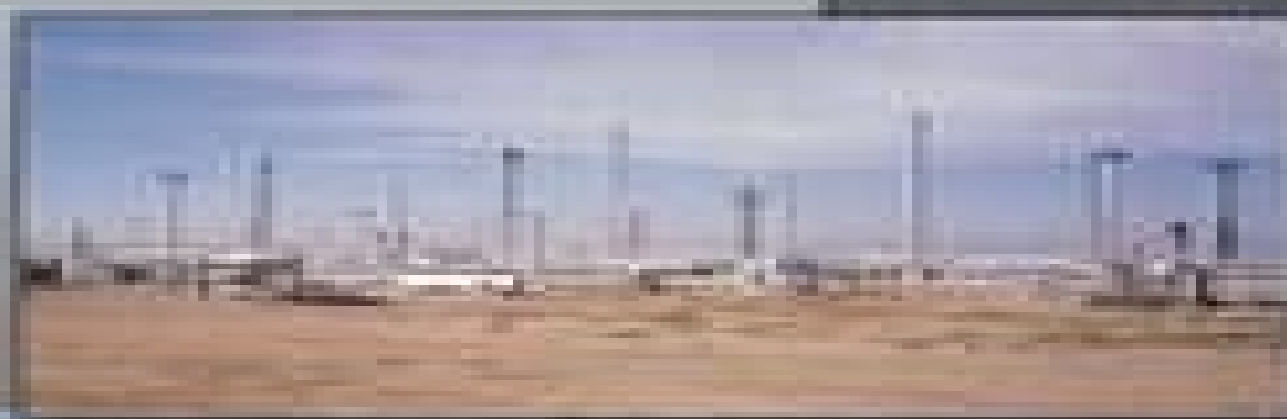


FUNDAMENTALS OF NATURAL GAS PROCESSING

THIRD EDITION



Arthur J. Kidnay
William R. Parrish
Daniel G. McCartney



CRC Press
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Fundamentals Of Natural Gas Conditioning

**Arthur J. Kidnay, William R.
Parrish, Daniel G. McCartney**



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Fundamentals of Natural Gas Conditioning R. N. Curry, 1981 **Fundamentals of Natural Gas Processing**

Arthur J. Kidnay, William R. Parrish, Daniel G. McCartney, 2011-01-05 Offering indispensable insight from experts in the field *Fundamentals of Natural Gas Processing Second Edition* provides an introduction to the gas industry and the processes required to convert wellhead gas into valuable natural gas and hydrocarbon liquids products The authors compile information from the literature meeting proceedings and the *Fundamentals of Natural Gas Processing* Arthur J. Kidnay, William R. Parrish, 2006-06-21 *Fundamentals of Natural Gas Processing* explores the natural gas industry from the wellhead to the marketplace It compiles information from the open literature meeting proceedings and experts to accurately depict the state of gas processing technology today and highlight technologies that could become important in the future This book covers *Fundamentals of Natural Gas Processing, Second Edition* Arthur J. Kidnay, William R. Parrish, Daniel G. McCartney, 2011-01-05 Offering indispensable insight from experts in the field *Fundamentals of Natural Gas Processing Second Edition* provides an introduction to the gas industry and the processes required to convert wellhead gas into valuable natural gas and hydrocarbon liquids products The authors compile information from the literature meeting proceedings and their own work experiences to give an accurate picture of where gas processing technology stands today as well as to highlight relatively new technologies that could become important in the future The second edition of this bestselling text reflects important advances in gas processing technologies including those related to liquefied natural gas LNG New to the Second Edition Background information in five new chapters that cover processing principles pumps heat transfer separation processes and phase separation equipment More discussions of many gas processes Questions and exercises at the end of most chapters to stress important concepts To help nonengineers understand the technical issues the first part of the text presents an overview of the basic concepts The topics covered in this part are applicable throughout the gas oil and chemical industries The second part addresses each step of natural gas processing with a focus on gas plant processes The chapters in this section follow the gas stream from gas bought at the wellhead to gas entering the marketplace Wherever possible the authors examine the advantages limitations and ranges of applicability of the processes so that their selection and integration into the overall gas plant can be fully understood For readers without a background in chemical engineering or who are just entering the field this book offers a thorough introduction to the natural gas industry It also helps those in the gas industry better understand how their products and services fit into the overall process **Basics of Gas Field Processing** Yasser Kassem, 2019-07-26 The book includes the basics of physical properties of natural gas necessary to understand natural gas processing and process calculations Items covered in the first chapter are gas molecular weight density at operating conditions heating value compressibility factor etc The second chapter covers the basics of phase behavior The third chapter covers a brief oil and gas separation where a detailed one was presented in the first book *Fundamentals of Oil and Gas Processing* The fourth chapter covers Natural gas hydrates prediction and inhibition The fifth chapter covers dehydration of natural gas The seventh chapter covers natural gas sweetening and sulfur recovery The book

includes the basics of physical properties of natural gas necessary to understand natural gas processing and process calculations. Items covered are gas molecular weight, density at operating conditions, heating value, compressibility factor, etc. The second chapter covers the basics of phase behavior. The third chapter covers a brief oil and gas separation where a detailed one was presented in the first book, *Fundamentals of Oil and Gas Processing*. The fourth chapter covers natural gas hydrates, prediction and inhibition. The fifth chapter covers dehydration of natural gas. The sixth chapter covers natural gas sweetening and sulfur recovery. The seventh chapter covers hydrocarbon recovery.

Natural Gas James G. Speight, 2018-11-26. *Natural Gas: A Basic Handbook*, Second Edition provides the reader with a quick and accessible introduction to a fuel source industry that is transforming the energy sector. Written at an introductory level but still appropriate for engineers and other technical readers, this book provides an overview of natural gas as a fuel source including its origins, properties, and composition. Discussions include the production of natural gas from traditional and unconventional sources, the downstream aspects of the natural gas industry including processing, storage, and transportation, and environmental issues and emission controls strategies. This book presents an ideal resource on the topic for engineers new to natural gas, for advisors and consultants in the natural gas industry, and for technical readers interested in learning more about this clean burning fuel source and how it is shaping the energy industry. Updated to include newer sources like shale gas, it includes new discussions on natural gas hydrates and flow assurance. Covers environmental issues. Contains expanded coverage of liquefied natural gas (LNG).

Handbook of Natural Gas Analysis James G. Speight, 2018-08-14. A comprehensive resource to the origin, properties, and analysis of natural gas and its constituents. *Handbook of Natural Gas Analysis* is a comprehensive guide that includes information on the origin and analysis of natural gas, the standard test methods and procedures that help with the predictability of gas composition and behavior during gas cleaning operations, and use. The author, a noted expert on the topic, also explores the properties and behavior of the various components of natural gas and gas condensate. All chapters are written as stand-alone chapters and they cover a wealth of topics including history and uses, origin and production, composition and properties, recovery, storage, and transportation, properties and analysis of gas stream and gas condensate. The text is designed to help with the identification of quality criteria, appropriate analysis, and testing that fall under the umbrella of ASTM International. ASTM is an organization that is recognized globally across borders, disciplines, and industries and works to improve performance in manufacturing and materials and products. This important guide contains detailed information on natural gas and its constituents. Offers an analysis of methane gas hydrates, ethane, propane, butane, and gas condensate. Includes information on the behavior of natural gas to aid in the planning for recovery, storage, transportation, and use. Covers the test methods that are applicable to natural gas and its constituents. Written in accessible and easy-to-understand terms. Written for scientists, engineers, analytical chemists who work with natural gas as well as other scientists and engineers in the industry. *Handbook of Natural Gas Analysis* offers a guide to the analysis

standard test methods and procedures that aid in the predictability of gas composition and behavior during gas cleaning operations and use

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 Natural Gas Transmission and Processing Saeid Mokhatab, William A.

Poe, 2012-08-08 A unique well documented and forward thinking work the second edition of Handbook of Natural Gas Transmission and Processing continues to present a thoroughly updated authoritative and comprehensive description of all major aspects of natural gas transmission and processing It provides an ideal platform for engineers technologists and operations personnel working in the natural gas industry to get a better understanding of any special requirements for optimal design and operations of natural gas transmission pipelines and processing plants First book of its kind that covers all aspects of natural gas transmission and processing Provides pivotal updates on the latest technologies which have not been addressed in depth in any existing books Offers practical advice for design and operation based on sound engineering principles and established techniques Examines ways to select the best processing route for optimal design of gas processing plants Contains new discussions on process modeling control and optimization in gas processing industry

Handbook of Liquefied Natural Gas Saeid Mokhatab, John Y. Mak, Jaleel V. Valappil, David Wood, 2013-10-15 Liquefied natural gas LNG is a commercially attractive phase of the commodity that facilitates the efficient handling and transportation of natural gas around the world The LNG industry using technologies proven over decades of development continues to expand its markets diversify its supply chains and increase its share of the global natural gas trade The Handbook of Liquefied Natural Gas is a timely book as the industry is currently developing new large sources of supply and the technologies have evolved in recent years to enable offshore infrastructure to develop and handle resources in more remote and harsher environments It is the

only book of its kind covering the many aspects of the LNG supply chain from liquefaction to regasification by addressing the LNG industries fundamentals and markets as well as detailed engineering and design principles A unique well documented and forward thinking work this reference book provides an ideal platform for scientists engineers and other professionals involved in the LNG industry to gain a better understanding of the key basic and advanced topics relevant to LNG projects in operation and or in planning and development Highlights the developments in the natural gas liquefaction industries and the challenges in meeting environmental regulations Provides guidelines in utilizing the full potential of LNG assets Offers advices on LNG plant design and operation based on proven practices and design experience Emphasizes technology selection and innovation with focus on a fit for purpose design Updates code and regulation safety and security requirements for LNG applications

Natural Gas Alexandre Rojey,1962 *Gas Engineering* James G. Speight,2022-11-07 Volume 2 covers the constituents of gas streams and their properties The author presents the chemistry and engineering aspects of the methods and principles by which the gas streams might be cleaned from their noxious constituents The concept of gas condensate is also discussed as well as the methods which can be applied to the analysis of streams and condensate Vol 1 Origin and Reservoir Engineering Vol 3 Uses of Gas and Effects

Geologic Analysis of Naturally Fractured Reservoirs Ronald A. Nelson,1985 **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

Natural Gas Processing from Midstream to Downstream Nimir O. Elbashir, Mahmoud M. El-Halwagi, Ioannis G. Economou, Kenneth R. Hall, 2019-02-04 A comprehensive review of the current status and challenges for natural gas and shale gas production treatment and monetization technologies Natural Gas Processing from Midstream to Downstream presents an international perspective on the production and monetization of shale gas and natural gas The authors review techno economic assessments of the midstream and downstream natural gas processing technologies Comprehensive in scope the text offers insight into the current status and the challenges facing the advancement of the midstream natural gas treatments Treatments covered include gas sweetening processes sulfur recovery units gas dehydration and natural gas pipeline transportation The authors highlight the downstream processes including physical treatment and chemical conversion of both direct and indirect conversion The book also contains an important overview of natural gas monetization processes and the potential for shale gas to play a role in the future of the energy market specifically for the production of ultra clean fuels and value added chemicals This vital resource Provides fundamental chemical engineering aspects of natural gas technologies Covers topics related to upstream midstream and downstream natural gas treatment and processing Contains well integrated coverage of several technologies and processes for treatment and production of natural gas Highlights the economic factors and risks facing the monetization technologies Discusses supply chain environmental and safety issues associated with the emerging shale gas industry Identifies future trends in educational and research opportunities directions and emerging opportunities in natural gas monetization Includes contributions from leading researchers in academia and industry Written for Industrial scientists academic researchers and government agencies working on developing and sustaining state of the art technologies in gas and fuels production and processing Natural Gas Processing from Midstream to Downstream provides a broad overview of the current status and challenges for natural gas production treatment and monetization technologies

Offshore Processing of CO₂-Rich Natural Gas with Supersonic Separator José Luiz de Medeiros, Lara de Oliveira Arinelli, Alexandre Mendonça Teixeira, Ofélia de Queiroz Fernandes Araújo, 2018-12-31 This book introduces a new and powerful approach based on rigorous process simulations conducted with professional simulators like HYSYS to predict the performance of supersonic separators SS The book addresses the utilization of SSs for the offshore processing of CO₂ rich natural gas as an alternative to Joule Thomson expansion glycol absorption membrane permeation and chemical absorption It describes and analyzes the conventional offshore processing of CO₂ rich natural gas discussing the advantages of SS in terms of cost and power consumption The

book offers a comprehensive framework for modeling SS units describing the physical principles of SS in detail The thermodynamic multiphase sound speed is also discussed at the light shed by a classical analysis based on the Landau Model of phase transitions A complete framework is presented for modelling and simulating SS units within HYSYS environment A special chapter is dedicated to the performance of SSs for removing CO₂ from CO₂ rich natural gas taking into account the limitations of CO₂ freeze out in various scenarios of gas feed in terms of CO₂ content pressure and temperature pt. I and II Oak Ridge National Laboratory,1974 Natural Gas Processing Alireza Bahadori,2014-05-05 Natural gas is considered the dominant worldwide bridge between fossil fuels of today and future resources of tomorrow Thanks to the recent shale boom in North America natural gas is in a surplus and quickly becoming a major international commodity Stay current with conventional and now unconventional gas standards and procedures with Natural Gas Processing Technology and Engineering Design Covering the entire natural gas process Bahadori s must have handbook provides everything you need to know about natural gas including Fundamental background on natural gas properties and single multiphase flow factors How to pinpoint equipment selection criteria such as US and international standards codes and critical design considerations A step by step simplification of the major gas processing procedures like sweetening dehydration and sulfur recovery Detailed explanation on plant engineering and design steps for natural gas projects helping managers and contractors understand how to schedule plan and manage a safe and efficient processing plant Covers both conventional and unconventional gas resources such as coal bed methane and shale gas Bridges natural gas processing with basic and advanced engineering design of natural gas projects including real world case studies Digs deeper with practical equipment sizing calculations for flare systems safety relief valves and control valves

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