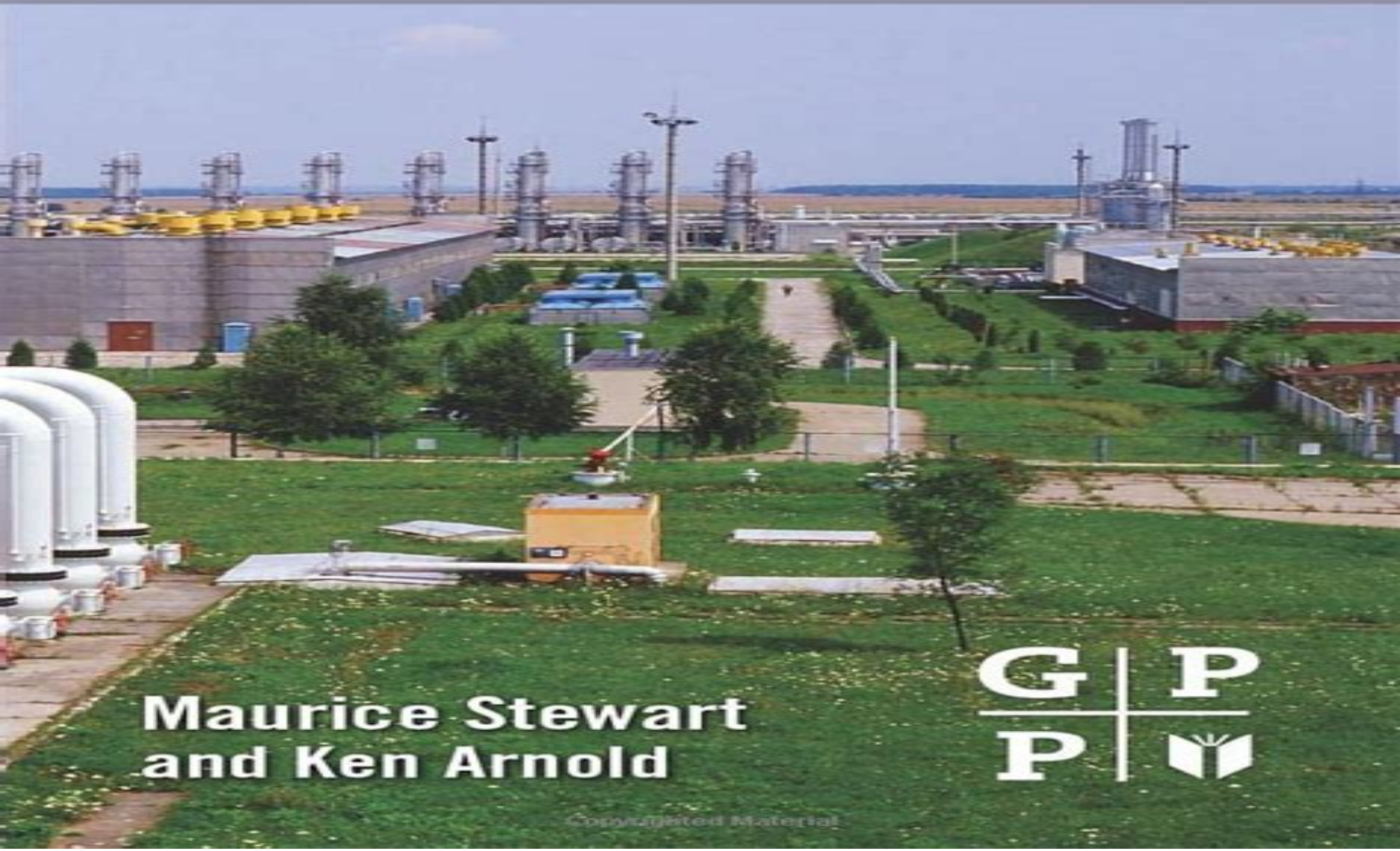


# Gas Sweetening and Processing Field Manual



**Maurice Stewart  
and Ken Arnold**



# Gas Sweetening And Processing Field Manual

**Xuezhong He, Izumi Kumakiri**



## **Gas Sweetening And Processing Field Manual:**

**Gas Sweetening and Processing Field Manual** Maurice Stewart, Ken Arnold, 2011-10-15 Although the processing of natural gas is in many respects less complicated than the processing and refining of crude oil it is equally as necessary before its use by end users The actual process used to separate oil from natural gas as well as the equipment that is used can vary widely Gas Sweetening and Processing Field Manual provides engineers with the ability to understand and select the most efficient and cost effective method to fit their individual needs Designed for engineers technologists and operations personnel involved in the design and operation of gas processing facilities the book starts with an explanation of the terms and theories used throughout the industry This is followed by clear and rigorous exposition of sweetness processes such as Solid Bed Adsorption Chemical Solvents Physical Solvents Distillation and Gas Permeation Exercises appear at the conclusion of each chapter with hints in addition to full solutions Other topics include Design Procedure Design Examples Problems and Practical Solutions Value of NGL Components Liquid Recovery Process Absorption Lean Oil Process Joule Thomson Refrigeration and Cryogenic Expansion Turbine Plants Chapters involving applications cover Direct Conversion of H<sub>2</sub>S to Sulfur Removal of H<sub>2</sub>S to Meet Pipeline Qualities Removal of CO<sub>2</sub> to Meet Pipeline Qualities and Selection Charts Engineers and process designers will find this text a valuable guide to gas sweetening process and equipment both in terms of its application to efficient and cost effective operations It will prove particularly useful to readers who want a quick reference guide to field operations and procedures as well as those readers who wish to increase their knowledge of best practices Rigorous exposition of all natural gas sweetness processes Equipment and process trouble shooting techniques Tips for diagnosing and solving equipment and process problems Exercises appear at the conclusion of each chapter

**Gas Sweetening and Processing Field Manual** Maurice Stewart, Ken Arnold, 2011-10-26 Rigorous exposition of all natural gas sweetness processes

**Advances in Natural Gas: Formation, Processing, and Applications. Volume 2: Natural Gas Sweetening** Mohammad Reza Rahimpour, Mohammad Amin Makarem, Maryam Meshksar, 2024-02-10 Advances in Natural Gas Formation Processing and Applications is a comprehensive eight volume set of books that discusses in detail the theoretical basics and practical methods of various aspects of natural gas from exploration and extraction to synthesizing processing and purifying producing valuable chemicals and energy The volumes introduce transportation and storage challenges as well as hydrates formation extraction and prevention Volume 2 titled Natural Gas Sweetening introduces in detail different natural gas sweetening methods The book covers absorption with different solvents such as alkalis amin blends ionic liquids etc which is one of the important sweetening techniques as well as natural gas sweetening with adsorption based technologies utilizing various materials including zeolites carbonaceous sorbents metal oxides etc Is also discusses membrane based processes with various types such as ionic liquid polymeric MOF mixed matrix dense metal membranes and includes novel technologies for sweetening natural gas by using plasma and supersonic separators

Introduces natural gas sweetening concepts and challenges Describes various absorption and adsorption processes for natural gas sweetening Includes various membrane technologies for natural gas sweetening *Petroleum and Mineral Resources* Fuad M. Khoshnaw, 2012-11-30 The Kurdistan region of Northern Iraq is one of the emerging areas in the Middle East rich in oil gas and mineral resources as well as underground water However until recently the political and security issues were such that the region was unable to take advantage of these resources Nowadays Kurdistan is emerging as one of the fastest developing areas in the Middle East with its universities playing a major role in this process This book contains the proceedings of the First International Conference on Petroleum and Mineral Resources held at Koya University in Kurdistan Iraq Topics covered include Petroleum Exploration Drilling and Well Design Gas Production Petrochemical Engineering Geological Structures Metal Ore Extraction Resource and Production Engineering Multiphase Flow Processing of Oil and Gas Hydrocarbon Transportation Pipelines Field Support Facilities Project Development and Management Safety Management Environmental Management Operation Economics and Investment Regulations and Legislation Corrosion Infrastructure Protection *Advances in Synthesis Gas: Methods, Technologies and Applications* Mohammad Reza Rahimpour, Mohammad Amin Makarem, Maryam Meshksar, 2022-10-18 Advances in Synthesis Gas Methods Technologies and Applications Syngas Production and Preparation is a collection of various chapters concerning many aspects of syngas production technologies including common methods like gasification steam dry autothermal reforming membrane technology etc along with novel methods like plasma technology micro reactors electrolysis processes as well as photocatalytic systems In addition different sources for producing syngas including oil crude oil heavy oil microalgae black liquor tar and bitumen as well as municipal agricultural food plastic wood and cardboard wastes are described in detail Introduces syngas characteristics and its properties Describes various methods and technologies for producing syngas Discusses syngas production from different roots and feedstocks *Handbook of Research on Advancements in Environmental Engineering* Gaurina-Medjimurec, Nediljka, 2014-11-30 The protection of clean water air and land for the habitation of humans and other organisms has become a pressing concern amid the intensification of industrial activities and the rapidly growing world population The integration of environmental science with engineering principles has been introduced as a means of long term sustainable development The Handbook of Research on Advancements in Environmental Engineering creates awareness of the role engineering plays in protecting and improving the natural environment Providing the latest empirical research findings this book is an essential reference source for executives educators and other experts who seek to improve their project s environmental costs *Carbon Membrane Technology* Xuezhong He, Izumi Kumakiri, 2020-11-25 Carbon membranes have great advantages of strong mechanical strength and high chemical stabilities as well as high separation performance to reach the industrial attractive region Further improvement on membrane performance can potentially offset the relatively high production cost compared to polymeric membranes However there are still some challenges related to

fabrication of asymmetric carbon membranes the controlling of structure and pore size and module up scaling for commercial application The aim of this book is to provide the fundamentals on carbon membrane materials for the young researchers and engineers to develop frontier membrane materials for energy efficient separation process This book describes the status and perspectives of both self supported and supported carbon membranes from fundamentals to applications The key steps on the development of high performance carbon membranes including precursor selection tuning carbon membrane structure and regeneration are discussed In the end different potential applications both in gas and liquids separation are well described and the future directions for carbon membrane development were pointed out To this end membrane science and engineering are set to play crucial roles as enabling technologies to provide energy efficient and cost effective future solutions for energy and environment related processes Based on this approach the research projects which are trying to find attractive carbon materials in our days are many The published papers per year in the topic of carbon membranes especially for biogas upgrading natural gas sweetening and hydrogen purification are numerous with very high impact However only few are the books which include relevant to the topic of carbon membrane technology This book offers the condensed and interdisciplinary knowledge on carbon membranes and provides the opportunity to the scientists who are working in the field of carbon membrane technology for gas and liquid separations to present share and discuss their contributions within the membrane community

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*Handbook of Natural Gas Transmission and Processing* Saeid Mokhatab, William A. Poe, James G. Speight, 2017-09-01 Handbook of Natural Gas Transmission and Processing gives engineers and managers complete coverage of natural gas transmission and processing in the most rapidly growing sector to the petroleum industry The authors provide a unique discussion of new technologies that are energy efficient and environmentally appealing at the same time It is an invaluable reference on natural gas engineering and the latest techniques for all engineers and managers moving to natural gas processing as well as those currently working on natural gas projects Provides practicing engineers critical information on all aspects of gas gathering processing and transmission First book that treats multiphase flow transmission in great detail Examines natural gas energy costs and pricing with the aim of delivering on the goals of efficiency quality and profit

*Saudi Arabia Investment and Business Guide Volume 1 Strategic and Practical Information* IBP, Inc., 2015-09-11 Saudi Arabia Investment and Business Guide Volume 1 Strategic and Practical Information

*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

*Saudi Arabia: Doing Business, Investing in Saudi Arabia Guide Volume 1 Strategic and Practical Information* IBP, Inc.,2015-06

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**Guide to Petroleum Engineering Career** Engr. Azunna I. B. Ekejiuba (Ph.D.),2020-11-02 Guide to Petroleum Engineering Career By Engr Azunna I B Ekejiuba Ph D Historically human beings have used petroleum in one form or another since ancient times more than 8000 years ago However the birth of the modern petroleum industry was on August 27 1859 when Colonel Edwin L Drake used the then popular cable tool also called churn or percussion drilling method to drill the actual historically first oil well on a stream called Oil Greek near Titusville Pennsylvania at a depth of 69 feet six inches 21 metres In recent years the advent of the transcontinental transmission lines and petrochemical industries has increased the value of natural gas methane to a fuel in great demand and a chemical feedstock raw material for many modern commercial and industrial products particularly the synthesis of plastics rubber fertilizers solvents adhesives pesticides gas to methanol GTM liquefied natural gas LNG et cetera Guide to Petroleum Engineering Career is an ideal career guide lecture note practical manual petrochemical production guide information source to all categories of practicing petroleum industry workers and enthusiasts who are interested to know more about the current key mankind energy resources as well as a reference on the emerging renewable fuel economy which reflects the challenges faced by the millennium petroleum engineers

**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 Includes new discussions on natural gas hydrates and flow assurance Covers environmental issues Contain expanded coverage of liquefied natural gas LNG      **Training for job interview Offshore Oil & Gas Rigs**

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## Reviewing **Gas Sweetening And Processing Field Manual**: Unlocking the Spellbinding Force of Linguistics

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