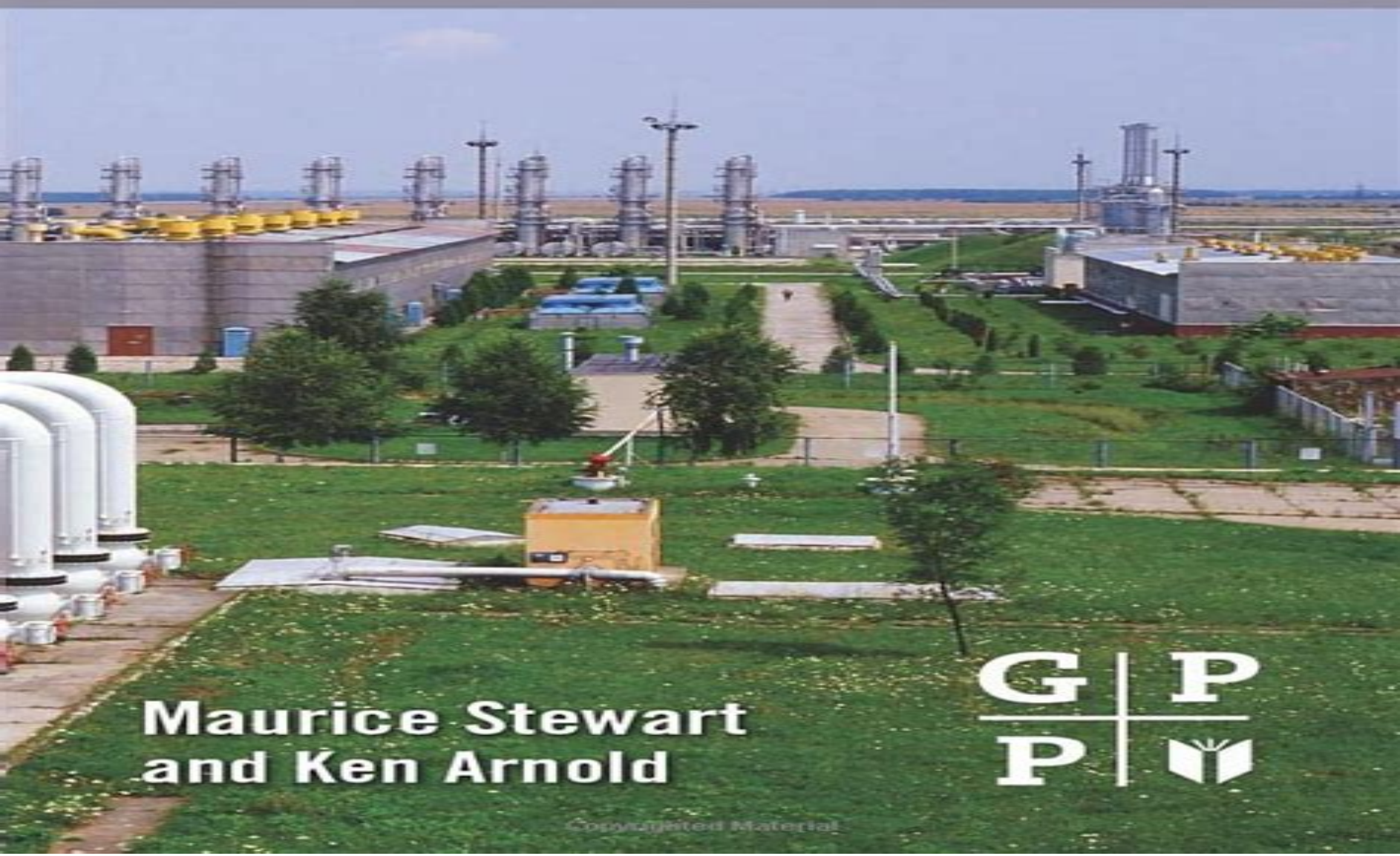


Gas Sweetening and Processing Field Manual



**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 H₂S to Sulfur Removal of H₂S to Meet Pipeline Qualities Removal of CO₂ 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 **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 *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 *Engineering Materials* Khubab Shaker, Yasir Nawab, 2024-11-04 The book is intended to cover the different types of materials used in modern engineering applications The book begins with an introductory chapter on the basic concepts of materials science Subsequently it includes a detailed overview of metals alloys ceramics polymers composites textiles 2D nanomaterials and biomaterials exploring their structure and properties

processing techniques and characterization methods Last chapter of the book is dedicated on materials sustainability including life cycle assessment and its role in sustainable materials design The book examines the environmental impact of different materials and processing techniques and explores strategies for minimizing this impact Overall this book will prove to be an excellent resource for undergraduate students and professionals working in domain of materials and allied areas To the best of our knowledge no other book available in the market comprehensively explores the engineering materials to such a breadth

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

Application of Membranes in the Petroleum Industry Swapnali Hazarika, Achyut Konwar, G. Narahari Sastry, 2024-07-04 This book focuses on the advantageous features of membrane technology in petroleum industries with an emphasis on membrane materials and the application of membranes in the separation of olefin paraffin oil water aliphatic aromatics heavy metals etc along with other applications like waste management sulphur emission enhanced oil recovery and so forth It also discusses the design and development of membranes from novel materials the challenges of new materials for membrane applications membrane based processes and the application of novel membrane based processes in the petroleum industry Features Addresses the fundamental applications of membranes in petroleum industrial separation

processes Highlights the role of membrane technology in waste management in petroleum industries Includes novel engineered membrane materials Discusses methods of extracting valuable substances from produced water and membrane fouling control Emphasises solving industrial problems pertinent to membrane usage This book is aimed at researchers and graduate students in chemical and petroleum engineering and membrane technology **Sustainable Resource**

Management Wenshan Guo,Huu Hao Ngo,Rao Y. Surampalli,Tian C. Zhang,2021-04-20 Sustainable Resource Management Learn how current technologies can be used to recover and reuse waste products to reduce environmental damage and pollution In this two volume set Sustainable Resource Management Technologies for Recovery and Reuse of Energy and Waste Materials delivers a compelling argument for the importance of the widespread adoption of a holistic approach to enhanced water energy and waste management practices Increased population and economic growth urbanization and industrialization have put sustained pressure on the world s environment and this book demonstrates how to use organics nutrients and thermal heat to better manage wastewater and solid waste to deal with that reality The book discusses basic scientific principles and recent technological advances in current strategies for resource recovery from waste products It also presents solutions to pressing problems associated with energy production during waste management and treatment as well as the health impacts created by improper waste disposal and pollution Finally the book discusses the potential and feasibility of turning waste products into resources Readers will also enjoy A thorough introduction and overview to resource recovery and reuse for sustainable futures An exploration of hydrothermal liquefaction of food waste including the technology s use as a potential resource recovery strategy A treatment of resource recovery and recycling from livestock manure including the current state of the technology and future prospects and challenges A discussion of the removal and recovery of nutrients using low cost adsorbents from single component and multi component adsorption systems Perfect for water and environmental chemists engineers biotechnologists and food chemists Sustainable Resource Management also belongs on the bookshelves of environmental officers and consultants chemists in private industry and graduate students taking programs in environmental engineering ecology or other sustainability related fields **Natural Resources**

Management: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2016-09-08 The perseveration of our natural environment has become a critical objective of environmental scientists business owners and citizens alike Because we depend on natural resources to survive uncovering methods for preserving and maintaining these resources has become a focal point to ensure a high quality of life for future generations Natural Resources Management Concepts Methodologies Tools and Applications emphasizes the importance of land soil water foliage and wildlife conservation efforts and management Focusing on sustainability solutions and methods for preserving the natural environment this critical multi volume research work is a comprehensive resource for environmental conservationists policymakers researchers and graduate level students interested in identifying key research in the field of

natural resource preservation and management *Bioresource Technology* Tanveer Bilal Pirzadah, Bisma Malik, Rouf Ahmad Bhat, Khalid Rehman Hakeem, 2022-03-22 Bioresource Technology Discover the latest developments in the field of bioresource technology with this practical handbook The management and cultivation of bioresources are critical components of the economic survival of nations Significantly underexplored recent advances in bioresource technologies have breathed new life into the research and development of new bioresource techniques and capabilities In Bioresource Technology Concept Tools and Experiences a team of distinguished researchers delivers a comprehensive work intended to bridge the gap between field oriented taxonomists and ecologists and lab oriented functional and molecular biologists The book is divided into three sections food environment and energy In the first part the authors explore the functional food sector from green and smart food packaging to nanosensors as diagnostic tools in the food industry The second part is concerned with the achievement of future energy security through the use of bioresources as energy sources Finally the third section discusses sustainable environmental management policies via bioresource use Readers will also benefit from the inclusion of A thorough introduction on the recent advances in the technology pertaining to functional food industry to overcome the future food challenges Comprehensive explorations of the art and science of growing microgreens including their historical background cultivation practices quality and shelf life In depth examinations of the bioprospecting of bioresources including bioprospecting in agriculture chemical industries and diagnostic applications Provides state of the art technologies in the green energy sector to cater for the energy demand of the people reducing greenhouse gases GHG and the reliance on fossil fuels In depth understanding on the recent advances in the bioresource management policies and sustainable environment Perfect for postgraduate students research scholars faculty and scientists involved in agriculture plant sciences environmental sciences bioenergy biofuels molecular biology and microbiology Bioresource Technology Concept Tools and Experiences is also an indispensable resource for those working in biochemistry biotechnology and food technology 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

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 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

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 **Air Pollution Abstracts** ,1971 N.A.P.C.A. Abstract Bulletin United States. Environmental Protection Agency,1971 *Training for job interview Offshore Oil & Gas Rigs* Petrogav International Oil & Gas Training Center,2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 275 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry

How to be prepared for job interview Offshore Oil & Gas Platforms Petrogav International Oil & Gas Training Center,2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 281 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry

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