

# Handbook of **NATURAL GAS TRANSMISSION** and **PROCESSING**

**SAEID MOKHATAB**  
**WILLIAM A. POE**  
**JAMES G. SPEIGHT**



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# Handbook Of Natural Gas Transmission And Processing

**JS Bruner**



## **Handbook Of Natural Gas Transmission And Processing:**

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.

*Handbook of Natural Gas Transmission and Processing* Saeid Mokhatab, William A. Poe, John Y. Mak, 2015-02-14. Written by an internationally recognized author team of natural gas industry experts, the third edition of Handbook of Natural Gas Transmission and Processing is a unique, well-documented and comprehensive work on the major aspects of natural gas transmission and processing. Two new chapters have been added to the new edition: a chapter on nitrogen rejection to address today's high nitrogen gases and a chapter on gas processing plant operations to assist plant operators with optimizing their plant operations. In addition, overall updates to Handbook of Natural Gas Transmission and Processing provide a fresh look at new technologies and opportunities for solving current gas processing problems on plant design and operation and on greenhouse gases emissions. It also does an excellent job of highlighting the key considerations that must be taken into account for any natural gas project in development. Covers all technical and operational aspects of natural gas transmission and processing in detail. Provides pivotal updates on the latest technologies, applications and solutions. Offers practical advice on design and operation based on engineering principles and operating experiences. *Handbook of Natural Gas Transmission and Processing* Saeid Mokhatab, William A. Poe, 2012-07-02. Acquire the tools and techniques that will help meet the world's growing natural gas demand. Handbook of Natural Gas Transmission and Processing 2nd Edition gives engineers and managers complete coverage of natural gas transmission and processing in the most rapidly growing sector to the petroleum industry. Emphasizing the practical aspects of natural gas production over the theoretical, the authors provide a unique discussion of new technologies that are energy efficient and environmentally appealing at the same time. This 2nd edition examines ways to select the best processing route for optimal design of gas processing plants and includes three new chapters on dynamics of process controls, process modeling and simulation and optimal design of gas processing plants. Both Chapter 7 Acid Gas Treating and Chapter 9 Natural Gas Dehydration are heavily revised. The objective of this work is to provide plant designers and owners/operators methods to decrease construction costs and total cost of ownership while addressing reliability and availability. **Handbook of Natural Gas Transmission and Processing** Ashish

Vishoni,2015-08 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 Handbook of Natural Gas Transmission and Processing provide a fresh look at new technologies and opportunities for solving current gas processing problems on plant design and operation and on greenhouse gases emissions It also does an excellent job of highlighting the key considerations that must be taken into account for any natural gas project in development

**Advances in Natural Gas: Formation, Processing, and Applications. Volume 5: Natural Gas Impurities and Condensate**

**Removal** Mohammad Reza Rahimpour,Mohammad Amin Makarem,Maryam Meshksar,2024-03-21 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 5 titled Natural Gas Impurities and Condensates Removal comprehensively discusses the characteristics and properties of natural gas condensates and dehydrated non acidic impurities The book describes related environmental challenges removal standards policies and regulations as well as economic assessment It covers particulates such as aerosols arsenic etc and condensates removal techniques from natural gas as well as mercury nitrogen and helium removal from natural gas by absorption adsorption and membrane based processes Introduces different impurities and condensates of natural gas with their characteristics Includes common methods for particulates and condensates removal from natural gas such as adsorption absorption and cryogenic techniques Describes various membrane technologies for particulates and condensates removal from natural gas

Advances in Natural Gas: Formation, Processing, and Applications. Volume 4: Natural Gas Dehydration Mohammad Reza

Rahimpour,Mohammad Amin Makarem,Maryam Meshksar,2024-03-05 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 4 titled Natural Gas Dehydration introduces in detail different natural gas dehydration methods The book covers absorption with different solvents such as glycols ionic liquids and DES which is one of the important dehydration techniques as well as natural gas dehydration with adsorption based technologies utilizing various materials including zeolites carbonaceous sorbents metal oxides etc It discusses in detail membrane based processes with various types such as hollow fiber polymeric zeolite membranes and includes novel technologies for sweetening natural gas by using direct cooling and compression supersonic technology and micro reactors Introduces natural gas dehydration

concepts and challenges Describes various absorption and adsorption processes for natural gas dehydration Discusses novel methods for natural gas dehydration including membrane and supersonic technologies **Advances in Natural Gas: Formation, Processing, and Applications. Volume 6: Natural Gas Transportation and Storage** Mohammad Reza Rahimpour, Mohammad Amin Makarem, Maryam Meshksar, 2024-04-04 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 6 titled Natural Gas Transportation and Storage is separated into three sections The first section discusses different natural gas transportation technologies such as LNG CNG ANG GTS etc The second section introduces related apparatus for natural gas transportation and storage including measurement systems compressors pumps etc as well as pipelines and controlling equipment The last section explains challenges of natural gas transmission including inhibition of pipeline corrosion cracking and wax deposition accompanied with pipeline cleaning challenges Introduces various natural gas transportation technologies LNG CNG ANG Describes different apparatus for natural gas transportation and storage Includes various challenges of natural gas transportation such as pipeline corrosion and wax deposition

*Handbook of Petroleum Refining* James G. Speight, 2016-10-26 Petroleum refining involves refining crude petroleum as well as producing raw materials for the petrochemical industry This book covers current refinery processes and process types that are likely to come on stream during the next three to five decades The book includes 1 comparisons of conventional feedstocks with heavy oil tar sand bitumen and bio feedstocks 2 properties and refinability of the various feedstocks 3 thermal processes versus hydroprocesses and 4 the influence of refining on the environment **Using the Engineering Literature, Second Edition** Bonnie A. Osif, 2011-08-09 With the encroachment of the Internet into nearly all aspects of work and life it seems as though information is everywhere However there is information and then there is correct appropriate and timely information While we might love being able to turn to Wikipedia for encyclopedia like information or search Google for the thousands of links on a topic engineers need the best information information that is evaluated up to date and complete Accurate vetted information is necessary when building new skyscrapers or developing new prosthetics for returning military veterans While the award winning first edition of Using the Engineering Literature used a roadmap analogy we now need a three dimensional analysis reflecting the complex and dynamic nature of research in the information age Using the Engineering Literature Second Edition provides a guide to the wide range of resources available in all fields of engineering This second edition has been thoroughly revised and features new sections on nanotechnology as well as green engineering The information age has greatly impacted the way engineers find information Engineers have an effect directly and indirectly on almost all aspects of our lives and it is vital that they find the right information at the right time to create

better products and processes Comprehensive and up to date with expert chapter authors this book fills a gap in the literature providing critical information in a user friendly format **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 **The Chemistry and**

**Technology of Petroleum** James G. Speight,2014-02-26 With demand for petroleum products increasing worldwide there is a tendency for existing refineries to seek new approaches to optimize efficiency and throughput In addition changes in product specifications due to environmental regulations greatly influence the development of petroleum refining technologies These factors underlie the need for t **Energy Resources and Systems** Tushar Ghosh,Mark Prelas,2009-06-17 In the lifetimes of the authors the world and especially the United States have received three significant wake up calls on energy production and consumption The first of these occurred on October 15 1973 when the Yom Kippur War began with an attack by Syria and Egypt on Israel The United States and many western countries supported Israel Because of the western support

of Israel several Arab oil exporting nations imposed an oil embargo on the west These nations withheld five million barrels of oil per day Other countries made up about one million barrels of oil per day but the net loss of four million barrels of oil production per day extended through March of 1974 This represented 7% of the free world's i.e. excluding the USSR oil production In 1972 the price of crude oil was about 3.00 per barrel and by the end of 1974 the price of oil had risen by a factor of 4 to over 12.00 This resulted in one of the worst recessions in the post World War II era As a result there was a movement in the United States to become energy independent At that time the United States imported about one third of its oil about five million barrels per day After the embargo was lifted the world chose to ignore the wake up call and went on with business as usual

**Energy Resources and Systems** Tushar K. Ghosh, Mark A. Prelas, 2009-06-04 In the lifetimes of the authors the world and especially the United States have received three significant wake up calls on energy production and consumption The first of these occurred on October 15 1973 when the Yom Kippur War began with an attack by Syria and Egypt on Israel The United States and many western countries supported Israel Because of the western support of Israel several Arab oil exporting nations imposed an oil embargo on the west These nations withheld five million barrels of oil per day Other countries made up about one million barrels of oil per day but the net loss of four million barrels of oil production per day extended through March of 1974 This represented 7% of the free world's i.e. excluding the USSR oil production In 1972 the price of crude oil was about 3.00 per barrel and by the end of 1974 the price of oil had risen by a factor of 4 to over 12.00 This resulted in one of the worst recessions in the post World War II era As a result there was a movement in the United States to become energy independent At that time the United States imported about one third of its oil about five million barrels per day After the embargo was lifted the world chose to ignore the wake up call and went on with business as usual

**Oil and Gas Corrosion Prevention** James G. Speight, 2014-03-13 According to NACE National Association of Corrosion Engineers the total annual cost of corrosion in petroleum refining takes up 3.7 billion in the US alone Corrosion control is always a challenge for the downstream industry but as the quality of feedstock is declining due to refineries accepting more of the heavy and shale gas and oil resources that are more readily available today refinery managers petroleum and natural gas engineers are unprepared for the new set of corrosion problems that are showing up in their equipment and processing units Oil and Gas Corrosion Prevention From Surface Facilities to Refineries quickly gets the engineer and manager up to speed on the latest types of corrosion common for these lower grade crude oils and gases as well as the best prevention methods for all of the major sections of the refinery especially desalting and sulfur recovery units which are the most common problem areas for unconventional feedstocks Also covering the unique midstream sections or point of entry to the refinery as well as the major critical refinery equipment Oil and Gas Corrosion Prevention From Surface Facilities to Refineries offers the perfect quick cross reference for the oil and gas community Gets engineers and managers up to speed on the latest types of corrosion common for lower grade crude oils and gases Provides the best prevention

methods for all of the major sections of the refinery especially desalting and sulfur recovery units Covers additional topics such as unique midstream sections or point of entry to the refinery as well as major critical refinery equipment *Pipelines* M. Rafiqul Islam,2023-07-03 *Pipelines Emerging Technologies and Design Criteria* the latest release in the Sustainable Oil and Gas Development series delivers the tools needed to understand more environmentally friendly design construction and maintenance of oil and gas pipelines Designed to introduce ideal solutions and current state of the art practices the reference includes guidelines on environmental impact assessment and sustainable route design as well as the sustainability of additives and power systems Material selection real time processing of smart well data and remote sensing are also discussed Rounded out with inspection tools and emerging technology such as novel corrosion protection this book gives pipeline engineers a guide on safer alternatives and upcoming guidelines in the race to reduce emissions Provides insights to more environmentally friendly protocols for material selection construction and integrity Helps readers determine more accurate protection plans and learn the latest techniques including nanotechnology and sustainable hydrate and wax mitigation Presents valuable insights from a well known author with extensive experience in both academia and industry

*Gas Engineering* James G. Speight,2023-05-08 This 3rd volume of Gas Engineering introduces the concept of liquefied natural gas and the concept gas to liquids and also presents a review of the uses of gas streams and the effects of the various gases on the environment This volume also describes the properties gas streams as they are related to corrosion effects are also presented The relationship of the properties of gas streams as they affect corrosion such as carburization and metal dusting as well as corrosion in steel and other materials used in refinery technology are also presented and the book summarizes key findings into corrosion processes in gas processing equipment as well as corrosion in offshore structures Each book contains references at the end of chapter which include information from the open literature and meeting proceedings to give a picture of where the gas processing technology stands as well as indicate some relatively new technologies that could become important in the future Also each book also contains a comprehensive glossary The books are written in an easy to read style and offer a ready at hand one stop shopping guide to the many issues that are related to the engineering aspects of the properties and processing of natural gas as well as the effects of natural gas on various ecosystems as well as to pollutant mitigation and clean up The books present an overview with a considerable degree of detail of the various aspects of natural gas technology Any chemistry presented in the books is used as a means of explanation of a particular point but is maintained at an elementary level *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      Nanomaterials for Carbon Dioxide Capture and Conversion Technologies Shaukat Ali Mazari,Nabisab Mujawar Mubarak,Manoj Tripathi,2022-10-04 Nanomaterials for Carbon Dioxide Capture and Conversion Technologies focuses on the applications of nanomaterials for CO<sub>2</sub> capture and conversion The book highlights the need for CO<sub>2</sub> mitigation followed by the basic principles for CO<sub>2</sub> capture and conversion using different nanomaterials while also discussing and highlighting challenges and perspectives Abundant CO<sub>2</sub> emissions from industries and the transportation sector are a threat to the planet due to overwhelming concerns regarding CO<sub>2</sub> induced climate change Nanomaterials are being widely investigated for CO<sub>2</sub> capture and conversion processes Nano absorbents adsorbents and nanomembranes for CO<sub>2</sub> capture nano catalysts for catalytic CO<sub>2</sub> conversion and chemical fixation of CO<sub>2</sub> are some of the broader applications of nanomaterials for CO<sub>2</sub> mitigation Helps readers understand the basic mechanisms and theories behind CO<sub>2</sub> capture and conversion using nanomaterials Provides information on the range of nanomaterials types used in CO<sub>2</sub> capture and storage systems Assesses the major challenges for integrating nanotechnology into carbon dioxide capture and storage systems at an industrial scale      Bioremediation of Petroleum and Petroleum Products James G. Speight,Karuna K. Arjoon,2012-11-07 With petroleum related spills explosions and health issues in the headlines almost every day the issue of remediation of petroleum and petroleum products is taking on increasing importance for the survival of our environment our planet and our future This book is the first of its kind to explore this difficult issue from an engineering and scientific point of view and offer solutions and reasonable courses of action This book will guide the reader through the various methods that are used for the bioremediation of petroleum and petroleum products The text is easy to read and includes many up to date and topical references This book introduces the reader to the science and technology of biodegradation a key process in the bioremediation of petroleum and petroleum based contaminants at spill sites The contaminants of concern in the molecularly variable petroleum and petroleum products can be degraded under appropriate conditions But the success of the process depends on the ability to determine the necessary conditions and establish them in the contaminated environment Although the prime focus of the book is to determine the mechanism extent and efficiency of biodegradation it is necessary to know the composition of the original petroleum or petroleum product The laws of science dictate what can or cannot be done with petroleum and petroleum products to ensure that biodegradation hence bioremediation processes are effective The science of the composition of petroleum and petroleum products is at the core of understanding the chemistry of biodegradation and bioremediation processes Hence inclusion of petroleum analyses and properties along with petroleum product analyses and properties is a necessary part of this text Bioremediation of Petroleum and Petroleum Products Summarizes the pros and cons of remediation of petroleum and petroleum based products from an environmental perspective

Gives examples of unethical behavior and how they should be corrected Offers arguments and elucidates engineering considerations on all sides of these difficult environmental and economic issues      **Supersonic Separators for**

**Sustainable Gas Purification** Hongbing Ding,Chuang Wen,Yan Yang,2025-06-26 This book thoroughly analyzes the crucial role of supersonic separator technology in addressing the challenges of environmental degradation and climate change particularly highlighting its importance in the dehydration and decarbonization of natural gas Employing computational fluid dynamics CFD modeling and experimental research along with meticulous data processing and image presentation the authors extensively investigate the complex phenomena of flow field characteristics and heat and mass transfer mechanisms within supersonic separators This approach demonstrates the innovative potential of this technology in the field of gas purification The book also introduces new strategies to enhance separation efficiency through heterogeneous condensation enhancement and multi objective optimization techniques providing readers with a deep understanding of the latest research in gas purification Furthermore it stimulates in depth discussions about building efficient energy systems and addressing climate challenges This book not only presents the latest advancements in supersonic separation technology but also guides readers to consider how to establish an efficient environmentally friendly and stable energy system to effectively tackle the challenges of global climate change

## Decoding **Handbook Of Natural Gas Transmission And Processing**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Handbook Of Natural Gas Transmission And Processing**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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### **Table of Contents Handbook Of Natural Gas Transmission And Processing**

1. Understanding the eBook Handbook Of Natural Gas Transmission And Processing
  - The Rise of Digital Reading Handbook Of Natural Gas Transmission And Processing
  - Advantages of eBooks Over Traditional Books
2. Identifying Handbook Of Natural Gas Transmission And Processing
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Handbook Of Natural Gas Transmission And Processing
  - User-Friendly Interface
4. Exploring eBook Recommendations from Handbook Of Natural Gas Transmission And Processing
  - Personalized Recommendations

- Handbook Of Natural Gas Transmission And Processing User Reviews and Ratings
- Handbook Of Natural Gas Transmission And Processing and Bestseller Lists
- 5. Accessing Handbook Of Natural Gas Transmission And Processing Free and Paid eBooks
  - Handbook Of Natural Gas Transmission And Processing Public Domain eBooks
  - Handbook Of Natural Gas Transmission And Processing eBook Subscription Services
  - Handbook Of Natural Gas Transmission And Processing Budget-Friendly Options
- 6. Navigating Handbook Of Natural Gas Transmission And Processing eBook Formats
  - ePub, PDF, MOBI, and More
  - Handbook Of Natural Gas Transmission And Processing Compatibility with Devices
  - Handbook Of Natural Gas Transmission And Processing Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Handbook Of Natural Gas Transmission And Processing
  - Highlighting and Note-Taking Handbook Of Natural Gas Transmission And Processing
  - Interactive Elements Handbook Of Natural Gas Transmission And Processing
- 8. Staying Engaged with Handbook Of Natural Gas Transmission And Processing
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Handbook Of Natural Gas Transmission And Processing
- 9. Balancing eBooks and Physical Books Handbook Of Natural Gas Transmission And Processing
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Handbook Of Natural Gas Transmission And Processing
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Handbook Of Natural Gas Transmission And Processing
  - Setting Reading Goals Handbook Of Natural Gas Transmission And Processing
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Handbook Of Natural Gas Transmission And Processing
  - Fact-Checking eBook Content of Handbook Of Natural Gas Transmission And Processing

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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