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## Novel and Green Processing

Class: Quality, Process, Innovation and Impact

Dr. Heather Downes, IChemE Processing and a IChemE Green Process Technology Award Winner

### Structure

Monday 18th June 9.00am - 12.00pm

- Lectures: Novel Green Processing

Monday 19th June 9.00am - 12.00pm

- Lectures: Application of knowledge

Monday 18th June 2.00pm - 5.00pm

- IChemE Green Process Technology Award Winner
  - (a) Green Processing and Innovation
  - (b) Innovation: Chemicals processing technology with green credentials

# Natural Gas Processing Principles And Technology Part I

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



## **Natural Gas Processing Principles And Technology Part I:**

**Natural Gas Processing** A. H. Younger, 1989 *Handbook of Natural Gas Transmission and Processing* Saeid Mokhatab, William A. Poe, John Y. Mak, 2018-10-26 Written by an internationally recognized team of natural gas industry experts the fourth edition of *Handbook of Natural Gas Transmission and Processing* is a unique well researched and comprehensive work on the design and operation aspects of natural gas transmission and processing Six new chapters have been added to include detailed discussion of the thermodynamic and energy efficiency of relevant processes and recent developments in treating super rich gas high CO<sub>2</sub> content gas and high nitrogen content gas with other contaminants The new material describes technologies for processing today's unconventional gases providing a fresh approach in solving today's gas processing challenges including greenhouse gas emissions The updated edition is an excellent platform for gas processors and educators to understand the basic principles and innovative designs necessary to meet today's environmental and sustainability requirement while delivering acceptable project economics Covers all technical and operational aspects of natural gas transmission and processing Provides pivotal updates on the latest technologies applications and solutions Helps to understand today's natural gas resources and the best gas processing technologies Offers design optimization and advice on the design and operation of gas plants [Proceedings of the 3rd International Gas Processing Symposium](#), 2012-12-13 Natural gas continues to be the fuel of choice for power generation and feedstock for a range of petrochemical industries This trend is driven by environmental economic and supply considerations with a balance clearly tilting in favor of natural gas as both fuel and feedstock Despite the recent global economic uncertainty the oil and gas industry is expected to continue its growth globally especially in emerging economies The expansion in LNG capacity beyond 2011 and 2012 coupled with recently launched and on stream GTL plants poses real technological and environmental challenges These important developments coupled with a global concern on green house gas emissions provide a fresh impetus to engage in new and more focused research activities aimed at mitigating or resolving the challenges facing the industry Academic researchers and plant engineers in the gas processing industry will benefit from the state of the art papers published in this collection that cover natural gas utilization sustainability and excellence in gas processing Provides state of the art contributions in the area of gas processing Covers solutions to technical and environmental problems Input from academia and industry

*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 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

**Advances in Natural Gas: Formation, Processing, and Applications. Volume 8: Natural Gas Process Modelling and Simulation** Mohammad Reza Rahimpour, Mohammad Amin Makarem, Maryam Meshksar, 2024-05-11 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 8 titled Process Modelling and Simulation discusses various aspects of natural gas related processes from modelling and simulation point of view This includes modelling of natural gas sweetening dehydration and other impurities removal processes and apparatus as well as simulation of processes and apparatus dealt with producing chemicals and energy from natural gas The book introduces modelling and simulation of natural gas hydrate related processes and covers modelling basics numerical approaches and optimization techniques which provides a deeper understanding of the subject Introduces

modelling and simulation methods for natural gas sweetening and purification Describes modelling and simulation procedures of producing chemicals and energy from natural gas Discusses theoretical basics and models of natural gas hydrates

**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

**Natural Gas Processing** A. H. Younger, 1989 *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

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 cov *CJChE*, 1998-02

**Coal Processing, Production, and Properties: Indexes** United States. Energy Research and Development Administration. Technical Information Center, 1976 Fundamentals of Natural Gas Processing, Third Edition Arthur J. Kidnay, William R. Parrish, Daniel G. McCartney, 2019-10-01 Offering indispensable insight from experts in the field Fundamentals of Natural Gas Processing Third Edition provides an introduction to the gas industry and the processes required to convert wellhead gas into valuable natural gas and hydrocarbon liquids products including LNG The authors compile information from the literature meeting proceedings short courses 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 third edition of this bestselling text features updates on North American gas processing and changing gas treating requirements due to shale gas production It covers the international nature of natural gas trade LNG economics and more To help nonengineers understand technical issues the first 5 chapters present an overview of the basic engineering concepts applicable throughout the gas oil and chemical industries The following 15 chapters address natural gas processing with a focus on gas plant processes and technologies The book contains 2 appendices The first contains an updated glossary of gas processing terminology The second is available only online and contains useful conversion factors and physical properties data Aimed at students as well as natural gas processing professionals this edition includes both discussion questions and exercises designed to reinforce important concepts making this book suitable as a textbook in upper level or graduate engineering courses

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*Natural Gas Processing* Alireza Bahadori,2014 Capture the most current equipment processes and technology for all conventional and unconventional natural gas

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