



Natural Gas Hydrates

A Guide for Engineers

John Carroll



Natural Gas Hydrates A Guide For Engineers

Carlo Giavarini, Keith Hester



Natural Gas Hydrates A Guide For Engineers:

Natural Gas Hydrates John Carroll, 2003-01-13 This is the most exhaustive study to date on natural gas hydrates In spite of their importance hydrates are misunderstood and misconceptions abound This book provides an accurate review of what hydrates are and under what conditions they will form and it provides the engineer with the methods to predict the occurrences of hydrates The petroleum industry spends millions every year to combat the formation of hydrates the solid crystalline compounds that form from water and small molecules damaging equipment and plugging transmission lines Understanding how when and where they form and using this knowledge to apply remedies in practical applications are crucial The most comprehensive study of natural gas hydrates A manual for the engineer or textbook for the student Contains cutting edge solutions to natural gas hydrate problems

Natural Gas Hydrates John Carroll, 2020-05-12 Natural Gas Hydrates Fourth Edition provides a critical reference for engineers who are new to the field Covering the fundamental properties thermodynamics and behavior of hydrates in multiphase systems this reference explains the basics before advancing to more practical applications the latest developments and models Updated sections include a new hydrate toolbox updated correlations and computer methods Rounding out with new case study examples this new edition gives engineers an important tool to continue to control and mitigate hydrates in a safe and effective manner Presents an updated reference with structured comparisons on hydrate calculation methods that are supported by practical case studies and a current list of inhibitor patents Provides a comprehensive understanding of new hydrate management strategies particularly for multiphase pipeline operations Covers future challenges such as carbon sequestration with simultaneous production of methane from hydrates

Petroleum Engineer's Guide to Oil Field Chemicals and Fluids Johannes Fink, 2015-08-31 The oil and gas engineer on the job requires knowing all the available oil field chemicals and fluid applications that are applicable to the operation Updated with the newest technology and available products Petroleum Engineer's Guide to Oil Field Chemicals and Fluids Second Edition delivers all the necessary lists of chemicals by use their basic components benefits and environmental implications In order to maintain reservoir protection and peak well production performance operators demand to know all the options that are available Instead of searching through various sources Petroleum Engineer's Guide to Oil Field Chemicals and Fluids Second Edition presents a one stop non commercialized approach by organizing the products by function matching the chemical to the process for practical problem solving and extending the coverage with additional resources and supportive materials Covering the full spectrum including fluid loss additives drilling muds cement additives and oil spill treating agents this must have reference answers to every oil and gas operation with more options for lower costs safer use and enhanced production Effectively locate and utilize the right chemical application specific to your oil and gas operation with author's systematic approach by use Gain coverage on all oil field chemicals and fluids needed throughout the entire oil and gas life cycle including drilling production and cementing Understand environmental factors and risks for

oil field chemicals along with pluses and minuses of each application to make the best and safest choice for your operation

Natural Gas Hydrates in Flow Assurance Carolyn Ann Koh, Amadeu Sum, 2010-10-12 With millions of kilometres of onshore and offshore oil and gas pipelines in service around the world pipelines are the life s blood of the world Notorious for disrupting natural gas production or transmission the formation of natural gas hydrates can cost a company hundreds of millions and lead to catastrophic equipment breakdowns and safety and health hazards Written by an international group of experts *Natural Gas Hydrates in Flow Assurance* provide an expert overview of the practice and theory in natural gas hydrates with applications primarily in flow assurance Compact and easy to use the book provides readers with a wealth of materials which include the key lessons learned in the industry over the last 20 years Packed with field case studies the book is designed to provide hands on training and practice in calculating hydrate phase equilibria and plug dissociation In addition readers receive executable programs to calculate hydrate thermodynamics Case studies of hydrates in flow assurance The key concepts underlying the practical applications An overview of the state of the art flow assurance industrial developments

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

Gas Hydrates Carlo Giavarini, Keith Hester, 2011-09-06 Gas hydrates are both a huge energy resource and an environmental challenge They have a significant impact on society because of their applications to the future of energy protection of the environment and fuel transportation *Gas Hydrates* opens up this fascinating multidisciplinary field to non specialists It provides a scientific study of gas hydrates that considers their potential as an energy source while assessing the possible risk to the environment The authors also examine the feasibility of using these natural compounds for storing and transporting gases such as methane and carbon dioxide Diagrams and photos are used throughout *Gas Hydrates* to help readers understand the scientific and technical content Each section has been designed so it can be read independently by academics and professionals in the oil and gas industry as well as by all those with an interest in how hydrates combine to be an energy resource an industrial challenge and a geological hazard

Advances in Natural Gas: Formation, Processing, and Applications. Volume 3: Natural Gas Hydrates Mohammad Reza Rahimpour, Mohammad Amin Makarem, Maryam Meshksar, 2024-02-13 *Advances in Natural Gas Formation Processing and Applications Volume 3 Natural Gas Hydrates* comprises an extensive eight volume series delving into the intricate realms of both the theoretical fundamentals and practical methodologies associated with the various facets of natural gas Encompassing the entire spectrum from exploration and extraction to synthesis processing purification and the generation of valuable chemicals and energy these volumes also navigate through the complexities of transportation storage challenges hydrate formation extraction and prevention In Volume 3 titled *Natural Gas Hydrates* the

fundamental aspects of natural gas hydrates their associated disasters and case studies are introduced This book delves into the intricate details of hydrate structures physio chemical properties and thermodynamics offering a comprehensive understanding This volume also explores hydrates as an energy source and covers their dissociation methods A significant focus is placed on the challenges of natural gas hydrates formation in pipelines accompanied by prevention techniques Additionally this book discusses the discovery and extraction of natural gas hydrates from oceans shedding light on related geophysical indicators Introduces characteristics and properties of natural gas hydrates Describes pipeline natural gas hydrates and prevention methods Discusses oceanic natural gas hydrates and extraction methods

Flow Assurance Qiwei Wang, 2022-06-25 Petroleum engineers search through endless sources to understand oil and gas chemicals find problems and discover solutions while operations are becoming more unconventional and driving towards more sustainable practices The Oil and Gas Chemistry Management Series brings an all inclusive suite of tools to cover all the sectors of oil and gas chemicals from drilling to production processing storage and transportation The second reference in the series Flow Assurance delivers the critical chemical oilfield basics while also covering latest research developments and practical solutions Organized by the type of problems and mitigation methods this reference allows the engineer to fully understand how to effectively control chemistry issues make sound decisions and mitigate challenges ahead Basics include root cause model prediction and laboratory simulation of the major chemistry related challenges during oil and gas productions while more advanced discussions cover the chemical and non chemical mitigation strategies for more efficient safe and sustainable operations Supported by a list of contributing experts from both academia and industry Flow Assurance brings a necessary reference to bridge petroleum chemistry operations from theory into safer and cost effective practical applications Offers full range of oilfield production chemistry issues including chapters focused on hydrate and organic deposition control liquid blockage mitigation and abiotic and microbially influenced corrosion prevention Gain effective control on problems and mitigation strategies from industry list of experts and contributors Delivers both up to date research developments and practical applications bridging between theory and practice

Pore Scale Phenomena: Frontiers In Energy And Environment John M Poate, Hossein Kazemi, Tissa Illangasekare, Robert Kee, 2015-04-09 The field of pore scale phenomena is now emerging as one of the frontiers of science and many engineering disciplines Transport phenomena in the subsurface of the earth play key roles in the energy and environmental domains For example the shale gas and oil boom is revolutionizing the world s energy portfolio Pore scale phenomena from the nanoscale to mesoscale dominate the extraction of these resources Similarly in the environmental domain pore storage and pore scale physics affect the availability of water resources and protecting its quality Water flow and vapor transport in the pores near the land surface is critical to understanding soil water evaporation in the context of local and global hydrologic cycles affecting climate and climate change Pore scale phenomena similarly play critical roles in the domain of materials science and biology For example many

energy devices and membrane technologies are controlled by the physical and chemical properties of the pores Identifying and analyzing the properties of these pores has emerged as a frontier of characterization science This book provides for the first time a comprehensive overview of the fascinating interrelationship between engineering and science The authors and contributors are recognized experts from the faculty of the Colorado School of Mines Northwestern and Stanford This book will appeal to earth and environmental scientists materials scientists physicists and chemists

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

Oceanic Methane Hydrates Lin Chen, Sukru Merey, 2021-01-10 Methane hydrates are still a complicated target for today's oil and gas offshore engineers particularly the lack of reliable real field test data or obtaining the most recent technology available on the feasibility and challenges surrounding the extraction of methane hydrates Oceanic Methane Hydrates delivers the solid foundation as well as today's advances and challenges that remain Starting with the fundamental knowledge on gas hydrates the authors define the origin estimations and known exploration and production methods Historical and current oil and gas fields and roadmaps containing methane hydrates around the world are also covered to help lay the foundation for the early career engineer Lab experiments and advancements in numerical reservoir simulations transition the engineer from research to practice with real field core sampling techniques covered points on how to choose producible methane hydrate reservoirs and the importance of emerging technologies Actual comparable onshore tests from around the world are included to help the engineer gain clarity on field expectations Rounding out the reference are emerging technologies in all facets of the business including well completion and monitoring economics aspects to consider and environmental challenges particularly methods to reduce the costs of methane hydrate exploration and production techniques Rounding out a look at future trends Oceanic Methane Hydrates covers both the basics and advances needed for today's engineers to gain the required knowledge needed to tackle this challenging and exciting future energy source Understand real data and practice examples covering the newest developments of methane hydrate from chemical reservoir modelling and production testing Gain worldwide coverage and analysis of the most recent

extraction production tests Cover the full range of emerging technologies and environmental sustainability including current regulations and policy outlook

Handbook of Pyrrolidone and Caprolactam Based Materials, 6 Volume Set Osama M. Musa, 2021-07-06 HANDBOOK OF PYRROLIDONE AND CAPROLACTAM BASED MATERIALS Brings together for the first time a comprehensive review of all aspects of pyrrolidone and caprolactam based materials This comprehensive six volume set describes the broad technical universe of and lactams reviewing in depth the chemistry of the small lactam based molecules uncovering their unique properties and showing how they have enabled a myriad of commercially important applications From synthesis through production and into applications this extensive work targets significant and recent trends in and lactam science and technology and addresses all key aspects of pyrrolidone and caprolactam based materials to produce a definitive overview of the field Handbook of Pyrrolidone and Caprolactam Based Materials provides a detailed and modern portrait of the impact of pyrrolidone and caprolactam based materials on the world as well as potential future possibilities Volume One presents the chemistry of small lactam based molecules and uncovers their unique properties Volume Two covers polymeric materials including polyvinyl pyrrolidone and polyvinyl caprolactam and reviews homopolymerization copolymerization controlled radical polymerization and acrylate based pyrrolidone polymerizations Volume Three examines the physical chemistry and molecular interactions of pyrrolidone and caprolactam based materials Volume Four expands upon the characterization theme from the third volume and includes detailed discussions of nuclear magnetic resonance NMR and Fourier transform infrared FT IR spectroscopy thermal and mechanical properties and imaging techniques Volume Five explores pharmaceutical applications in both ingredients and materials as well as the antimicrobial properties and applications of pyrrolidone and caprolactam based materials and their toxicology Volume Six covers personal and home care skin care transdermal applications and wound care oral care adhesion related applications and digital applications such as inkjet technology Handbook of Pyrrolidone and Caprolactam Based Materials will appeal to industrial scientists and engineers interested in polymer development and manufacturing It will also benefit academic researchers working in the fields of chemistry materials science and chemical and process engineering

Contemporary Environmental Issues and Challenges in Era of Climate Change Pooja Singh, Rajeev Pratap Singh, Vaibhav Srivastava, 2019-11-16 Over the last few decades unprecedented global population growth has led to increased demand for food and shelter At the same time extraction of natural resources beyond the Earth's resilience capacity has had a devastating effect on ecosystems and environmental health Furthermore climate change is having a significant impact in a number of areas including the global hydrological cycle ecosystem functioning coastal vulnerability forest ecology food security and agricultural sustainability According to the Intergovernmental Panel on Climate Change IPCC only immediate and sustained action will prevent climate change causing irreversible and potentially catastrophic damage to our environment This book presents various scientific views and concepts research reviews and case studies on contemporary

environmental issues in changing climate scenarios and highlights different adaptation measures Increasing awareness of modern day patterns of climate change it addresses questions often raised by environmental scientists researchers policymakers and general readers

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

Acid Gas Injection John J. Carroll, Ying Wu, Mingqiang Hao, Weiyao Zhu, 2025-04-01 This ninth and final volume in the series Advances in Natural Gas Engineering covers gas injection into geological formations one of the hottest topics in the industry with contributions from some of the most well known and respected engineers in the world This timely book focuses on gas injection into geological formations and other related topics which are very important areas of natural gas engineering and build on previous volumes It includes information for both upstream and downstream operations including chapters detailing the most cutting edge techniques in acid gas injection such as acid gas disposal modeling and much more Written by some of the most well known and respected chemical and process engineers working with natural gas today the chapters in this important volume represent the most state of the art processes and operations used in the field Not available anywhere else this volume is a must have for any chemical engineer chemist or process engineer in the industry Advances in Natural Gas Engineering is a series of books meant to form the basis for the working library of any engineer working with natural gas today

Computational and Experimental Simulations in Engineering Kun Zhou, 2025-03-17 This book gathers the latest advances innovations and applications in the field of computational engineering as presented by leading international researchers and engineers at the 30th International Conference on Computational bioengineering and biomechanics geotechnical engineering offshore and arctic engineering multi scale and multi physics fluid engineering structural integrity and longevity materials design and simulation and computer modeling methods in engineering The contributions which were selected by means of a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster

multidisciplinary collaborations **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

Gas Hydrates 1 Daniel Broseta, Livio Ruffine, Arnaud Desmedt, 2017-07-06 Gas hydrates or clathrate hydrates are crystalline solids resembling ice in which small guest molecules typically gases are trapped inside cavities formed by hydrogen bonded water host molecules They form and remain stable under low temperatures often well below ambient conditions and high pressures ranging from a few bar to hundreds of bar depending on the guest molecule Their presence is ubiquitous on Earth in deep marine sediments and in permafrost regions as well as in outer space on planets or comets In addition to water they can be synthesized with organic species as host molecules resulting in milder stability conditions these are referred to as semi clathrate hydrates Clathrate and semi clathrate hydrates are being considered for applications as diverse as gas storage and separation cold storage and transport and water treatment This book is the first of two edited volumes with chapters on the experimental and modeling tools used for characterizing and predicting the unique molecular thermodynamic and kinetic properties of gas hydrates Volume 1 and on gas hydrates in their natural environment and for potential industrial applications Volume 2

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

Proceedings of the 9th International Conference on Industrial Engineering Andrey A. Radionov, Vadim R. Gasiyarov, 2023-08-28 This book highlights recent findings in industrial manufacturing and mechanical engineering and provides an overview of the state of the art in these fields mainly in Russia and Eastern Europe A broad range of topics and issues in modern engineering is discussed including the machinery and mechanism design dynamics of machines and working processes friction wear and lubrication in machines design and manufacturing engineering of industrial facilities transport and technological machines mechanical treatment of materials industrial hydraulic systems This book gathers selected papers presented at the 9th International Conference on Industrial Engineering ICIE held in Sochi Russia in May 2023 The authors are experts in various fields of engineering and all papers have been carefully reviewed Given its scope this book will be of interest to a wide readership including mechanical and production engineers lecturers in engineering disciplines and engineering graduates

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