

THIRD EDITION

NATURAL GAS HYDRATES

A GUIDE FOR ENGINEERS



John Carroll

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Natural Gas Hydrates Third Edition A Guide For Engineers

E. Dendy Sloan

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Natural Gas Hydrates John Carroll,2014-10-24 Rarely covered in formal engineering courses natural gas hydrates are a common problem and real life danger for engineers worldwide Updated and more practical than ever Natural Gas Hydrates Third Edition helps managers and engineers get up to speed on all the most common hydrate types how to forecast when they will appear and safely mitigate their removal Known for being highly flammable gas hydrates are a preventable threat that can costs millions of dollars in damage as well as take the lives of workers and engineers on the rig The third edition of Natural Gas Hydrates is enhanced with today s more complex yet practical utilization needs including New hydrate types and formers including mercaptans and other sulfur compounds Vital information on how to handle hydrate formation in the wellbore useful information in light of the Macondo explosion and resulting oil spill More detailed phase diagrams such as ternary systems as well as more relevant multicomponent mixtures Quantifiably measure the conditions that make hydrates possible and mitigate the right equipment correctly Predict and examine the conditions at which hydrates form with simple and complex calculation exercises Gain knowledge and review lessons learned from new real world case studies and examples covering capital costs dehydration and new computer methods

Handbook of Natural Gas Transmission and Processing Saeid Mokhatab,William A. Poe,2012-08-08 A unique well documented and forward thinking work the second edition of Handbook of Natural Gas Transmission and Processing continues to present a thoroughly updated authoritative and comprehensive description of all major aspects of natural gas transmission and processing It provides an ideal platform for engineers technologists and operations personnel working in the natural gas industry to get a better understanding of any special requirements for optimal design and operations of natural gas transmission pipelines and processing plants First book of its kind that covers all aspects of natural gas transmission and processing Provides pivotal updates on the latest technologies which have not been addressed in depth in any existing books Offers practical advice for design and operation based on sound engineering principles and established techniques Examines ways to select the best processing route for optimal design of gas processing plants Contains new discussions on process modeling control and optimization in gas processing industry

Chemical Additives for Gas Hydrates Bhajan Lal,Omar Nashed,2019-10-01 This book offers a straightforward informative guide to the chemicals used for gas hydrate formation and inhibition providing the reader with the latest information on the definition structure formation conditions problems and applications of gas hydrates The authors review not only the inhibitors used to prevent or mitigate hydrate formation but also the conditions under which it is necessary to form hydrates quickly which require the use of promoters Various promoters are discussed including their specifications functions advantages and disadvantages The possibility of using natural reservoirs of gas hydrate as an energy source is also considered Lastly due to the difficulty of conducting experiments that reflect all conditions and concentrations the book presents a number of models that can predict the basic parameters in the presence of the chemicals Given its scope

the book will be of interest to professionals working in this field in an industrial context as well as to researchers undergraduate and graduate students of chemical engineering 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

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

Fluid Phase Behavior for Conventional and Unconventional Oil and Gas Reservoirs Alireza Bahadori, 2016-11-24 Fluid Phase Behavior for Conventional and Unconventional Oil and Gas Reservoirs delivers information on the role of PVT pressure volume temperature tests data in various aspects in particular reserve estimation reservoir modeling flow assurance and enhanced oil recovery for both conventional and unconventional reservoirs This must have reference also prepares engineers on the importance of PVT tests how to evaluate the data develop an effective management plan for flow assurance and gain perspective of flow characterization with a particular focus on shale

oil shale gas gas hydrates and tight oil making This book is a critical resource for today s reservoir engineer helping them effectively manage and maximize a company s oil and gas reservoir assets Provides tactics on reservoir phase behavior and dynamics with new information on shale oil and gas hydrates Helps readers Improve on the effect of salt concentration and application to C02 Acid Gas Disposal with content on water hydrocarbon systems Provides practical experience with PVT and tuning of EOS with additional online excel spreadsheet examples

Handbook of Offshore Oil and Gas Operations

James G. Speight,2025-07-18 Handbook of Offshore Oil and Gas Operations Methods Technologies and Environmental Impacts Second Edition gives a thorough overview of offshore operations including fundamentals technology safety legal and environmental considerations and global applications Sections present discussions on environmental impacts extensive coverage of offshore operations with current coverage of technologies processes legal and environmental aspects of deepwater exploration and drilling and well completion It is an authoritative resource on these advanced technologies providing safety aspects and the critical environmental considerations that govern offshore operations This new edition is revised and updated to include new chapters on Oil Spills and Cleanup Methods that support HSE initiatives and sustainability as well as multiple chapters that address the role of offshore operations in the reduction of carbon emissions The book s reach includes undergraduate and graduate students researchers engineers and entry level professionals interested in petroleum engineering chemical engineering environment and energy Helps readers quickly become familiar with offshore operations Provides basic fundamentals including basic geology procedures technological safety and environmental considerations and future challenges Presents critical standards that are backed up with real world case studies Addresses the role that offshore operations play in the reduction of carbon emissions

Essentials of Flow Assurance Solids in Oil and Gas Operations

Abdullah Hussein,2022-10-19 Flow assurance solids deposition is one of the main challenges in oil and gas production operations with millions of dollars spent annually on their mitigation Essentials of Flow Assurance Solids in Oil and Gas Operations works as an all inclusive reference for engineers and researchers covering all the different types of solids that are commonly encountered in oil and gas fields Structured to flow through real world operations the reference branches through each solid deposit problem where the root causes are as well as modeling monitoring characterization and management strategies all comprehensively reviewed in the light of contemporary research breakthroughs Backed by several field case studies Essentials of Flow Assurance Solids in Oil and Gas Operations gives petroleum and reservoir engineers a resource to correlate between the theoretical fundamentals and field practical applications allowing for sustainable and optimal operations Provides the main operations of oil and gas fields the characteristics of produced fluids and the main flow assurance challenges Furnishes the basic principles of deposits formation and mitigation starting with a full investigation of the problems then mechanisms causes predictions modelling and sample analysis followed by management Distinctively discusses the operational and environmental implications of flow

assurance solids and their management using chemical and nonchemical methods Teaches engineers through impactful visuals and data sets included in every chapter *Flow Assurance in Pipelines* Saeid Mokhatab, Juan Manzano-Ruiz, Antonin Chapoy, Jonathan J. Wylde, 2025-11-27 Flow assurance is critical for effective design and operation of hydrocarbon production and transmission systems The aim is to ensure safe and economical flow of hydrocarbon fluids from the source to the markets As future development of hydrocarbon resources moves into more challenging environments the importance of flow assurance is becoming more asserted Written by an internationally recognized team of experts *Flow Assurance in Pipelines A Reference Guide* is a unique well researched and comprehensive work in the flow assurance discipline that addresses the stages of a flow assurance study and identifies how they relate to the pipeline system design and operation This book is a fundamental resource for flow assurance engineers pipeline engineers operators and production chemists providing a detailed explanation of basic flow assurance issues that can arise in the pipeline systems and discusses practical methods to solve those issues safely and cost effectively Provides a systematic understanding of the concept of flow assurance Discusses flow assurance challenges in pipelines and how to overcome them Reviews latest flow assurance technologies engineering principles and practices Describes the best operating philosophies of pipeline systems to minimize flow assurance risks Explores sustainable pipeline applications in the transition to a low carbon economy

Transactions of the Society of Petroleum Engineers, 1993 **Natural Gas Hydrates, 3rd Edition** John Carroll, 2014 Rarely covered in formal engineering courses natural gas hydrates are a common problem and real life danger for engineers worldwide Updated and more practical than ever *Natural Gas Hydrates Third Edition* helps managers and engineers get up to speed on all the most common hydrate types how to forecast when they will appear and safely mitigate their removal Known for being highly flammable gas hydrates are a preventable threat that can costs millions of dollars in damage as well as take the lives of workers and engineers on the rig The third edition of *Natural Gas Hydrates* is enhanced with today's more complex yet practical utilization needs including New hydrate types and formers including mercaptans and other sulfur compounds Vital information on how to handle hydrate formation in the wellbore useful information in light of the Macondo explosion and resulting oil spill More detailed phase diagrams such as ternary systems as well as more relevant multicomponent mixtures Quantifiably measure the conditions that make hydrates possible and mitigate the right equipment correctly Predict and examine the conditions at which hydrates form with simple and complex calculation exercises Gain knowledge and review lessons learned from new real world case studies and examples covering capital costs dehydration and new computer methods **Hydrate Engineering** E. Dendy Sloan, 2000 **Journal of Petroleum Technology**, 1992 **Subject Guide to Books in Print**, 1996 *Physics, Uspekhi*, 2007 **Catalog of Copyright Entries, Third Series** Library of Congress, Copyright Office, 1948 *The British National Bibliography* Arthur James Wells, 2003 **Books in Print**, 1991

Mechanical Engineering, 1982 **Chemical Engineering Catalog**, 1924

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