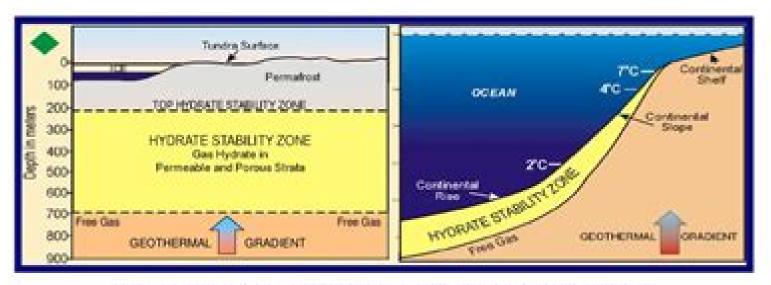
# Geosciences Research for Gas Hydrates

Developing the science base for understanding the potential of gas hydrates as a resource

BES research will investigate fundamental scientific questions about methane hydrates: their formation and occurrence; their stability in natural or engineered systems; their role in geological/ ecological systems; and their role in the carbon cycle (+\$17,517K).

The program will also study hydrates via controlled in situ depressurization and physical, thermal, and chemical stimulation in the Arctic and the Gulf of Mexico. This research will be supported by theory and multi-scale modeling and simulation in areas such as the intermolecular forces that govern the structure and properties of gas hydrates.



Methane hydrates are naturally occurring combinations of methane and water that form at low temperatures and high pressure.



# Natural Gas Hydrates Properties Occurrence And Recovery

E. Dendy Sloan Jr., Carolyn A. Koh

#### **Natural Gas Hydrates Properties Occurrence And Recovery:**

Natural Gas Hydrates John Carroll,2009-07-10 The petroleum industry spends millions of dollars every year to combat the formation of hydrates the solid crystalline compounds that form from water and small molecules that cause problems by plugging transmission lines and damaging equipment They are a problem in the production transmission and processing of natural gas and it is even possible for them to form in the reservoir itself if the conditions are favorable Natural Gas Hydrates is written for the field engineer working in the natural gas industry This book explains how when and where hydrates form while providing the knowledge necessary to apply remedies in practical applications New to the second edition the use of new inhibitors Kinetic Inhibitors and Anticoagulants and the topic of kinetics of hydrates How fast do they form How fast do they melt New chapters on Hydrates in Nature hydrates on the seafloor and a new section has also been added regarding the misconceptions about water dew points Chapters on Hydrate Types and Formers Computer Methods Inhibiting Hydrate Formation with Chemicals Dehydration of Natural Gas and Phase Diagrams Hydrate Dehydration of Natural Gas and Phase Diagrams have been expanded and updated along with the companion website Understand what gas hydrates are how they form and what can be done to combat their formation Avoid the same problems BP experienced with clogged pipelines Presents the four most common approaches to evaluate hydrates heat depressurization inhibitor chemicals and dehydration

Natural Gas Hydrates John L. Cox,1983 Natural Gas Hydrate M.D. Max, 2012-12-06 1 THE BEGINNINGS OF HYDRATE RESEARCH Until very recently our understanding of hydrate in the natural environment and its impact on seafloor stability its importance as a seguester of methane and its potential as an important mechanism in the Earth's climate change system was masked by our lack of appreciation of the vastness of the hydrate resource Only a few publications on naturally occurring hydrate existed prior to 1975 The first published reference to oceanic gas hydrate Bryan and Markl 1966 and the first publication in the scientific literature Stoll et al 1971 show how recently it has been since the topic of naturally occurring hydrate has been raised Recently however the number of hydrate publications has increased substantially reflecting increased research into hydrate topics and the initiation of funding to support the researchers Awareness of the existence of naturally occurring gas hydrate now has spread beyond the few scientific enthusiasts who pursued knowledge about the elusive hydrate because of simple interest and lurking suspicions that hydrate would prove to be an important topic The first national conference on gas hydrate in the U S was held as recently as April 1991 at the U S National Center of the U s Geological Survey in Reston Virginia Max et al 1991 The meeting was co hosted by the U s Geological Survey the Naval Research Laboratory and the U S **Exploration of Gas Hydrates** Naresh Kumar Thakur, Sanjeev Rajput, 2010-10-08 Gas hydrates are ice like crystalline substances that form a rigid cage of water molecules and entrap hydrocarbon and non hydrocarbon gas by hydrogen bonding Natural gas hydrate is primarily composed of water and methane These are solid crystalline ice like substances found in permafrost areas and deepwater basins around the world They naturally occur in the

pore space of marine sediments where appropriate high pressure and low temperature conditions exist in an adequate supply of gas mainly methane Gas hydrates are considered as a potential non conventional energy resource Methane hydrates are also recognized as an influence on offshore platform stability a major factor in climate change contributing to global warming and a significant contribution to the ocean carbon cycle The proposed book treats various geophysical techniques in order to quantify the gas hydrate reserves and their impact on environment The primary goal of this book is to provide the state of art for gas hydrate exploration The target audiences for this book are non specialist from different branches of science graduate students and researchers Clathrate Hydrates of Natural Gases E. Dendy Sloan Jr., Carolyn A. Koh, 2007-09-07 Hydrate research has expanded substantially over the past decade resulting in more than 4 000 hydrate related publications Collating this vast amount of information into one source Clathrate Hydrates of Natural Gases Third Edition presents a thoroughly updated authoritative and comprehensive description of all major aspects of natural gas cla Clathrate Hydrates, 2 Volumes John A. Ripmeester, Saman Alavi, 2022-05-31 Clathrate Hydrates All inclusive reference on clathrate hydrates from a molecular perspective Clathrate hydrates are crystalline water based inclusion compounds many of which form at high pressures and low temperatures Molecular science has provided the foundation for many areas of modern hydrate research and applications ranging from desalination processes to flow assurance in oil and gas pipelines Clathrate Hydrates provides detailed information on the molecular science aspects of hydrate research covering the structural compositional spectroscopic thermodynamic and mechanical properties of clathrate hydrates as well as simulation methods and selected engineering applications Edited and authored by recognized leaders in the field this comprehensive resource introduces readers to clathrate hydrates and reviews the state of the art of the field In depth chapters address different areas of specialization such as characterization of clathrate hydrates using NMR spectroscopy infrared and Raman spectroscopy and X ray and neutron diffraction and scattering Highlights recent developments in clathrate hydrate research and applications such as natural gas recovery desalination and gas separation Reviews various molecular simulation methods for characterizing clathrate hydrates including quantum mechanical calculations and Monte Carlo results Contains tables of known quest molecules summaries of structural and physical properties and different classes of clathrate hydrate phase equilibria Introduces unconventional guest host interactions related non hydrate clathrates and space filling cages using the Frank Kasper approach Covers the molecular motion of guest and host molecules and the relationship between cage geometry and guest dynamics Presents the rate and mechanisms of hydrate formation and decomposition from both macroscopic and microscopic points Clathrate Hydrates Molecular Science and Characterization is an indispensable reference for materials scientists physical chemists chemical engineers geochemists and graduate students in relevant areas of science and engineering Advances in the Study of Gas Hydrates Charles E. Taylor, Jonathan T. Kwan, 2007-05-08 This book had its genesis in a symposium on gas hydrates presented at the 2003 Spring National Meeting of the American

Institute of Chemical Engineers The symposium consisted of twenty papers presented in four sessions over two days Additional guest authors were invited to provide continuity and cover topics not addressed during the symposium Gas hydrates are a unique class of chemical compounds where molecules of one compound the guest material are enclosed without bonding chemically within an open solid lattice composed of another compound the host material These types of configurations are known as clathrates The quest molecules u ally gases are of an appropriate size such that they fit within the cage formed by the host material Commonexamples of gas hydrates are carbon dioxide water and methane water clathrates At standard pressure and temperature methane hydrate contains by volume 180 times as much methane as hydrate The United States Geological Survey USGS has estimated that there is more organic carbon c tained as methane hydrate than all other forms of fossil fuels combined In fact methane hydrates could provide a clean source of energy for several centuries Clathrate compounds were first discovered in the early 1800s when Humphrey Davy and Michael Faraday were experimenting with chlorine water mixtures Gas Hydrates J.-P. Henriet, Jürgen Mienert, 1998 From a geological perspective gas hydrates are an important feature of the shallow geosphere If current estimates are correct gas hydrates contain more potential fossil fuel energy than is present in conventional oil gas and coal deposits although it is uncertain how much of this can be exploited. They are also geological agents that affect the physical geophysical and geochemical properties of sediments Oceanic gas hydrates are increasingly recognized as a major potential hazard for the stability of offshore structures in various deep water hydrocarbon provinces The possibility also exists that a large release of methane from gas hydrates may have a significant impact on the radiative properties of the atmosphere and thus influence global climate past present and future Following an introduction and overviews this book covers analysis and modelling of hydrate formation exploration strategy and reservoir evaluation regional case studies relevance to margin stability and climate change Hydrate research information is presented from the USA Russia South Asia and the European Union Handbook of Industrial Hydrocarbon Processes James G. Speight, 2019-11-21 Handbook of Industrial Hydrocarbon Processes Second Edition provides an analysis of the process steps required to produce hydrocarbons from various raw materials and how the choice of a process depends not only on technology but also on external effects such as social and economic developments political factors affecting the availability of raw materials and environmental legislation This book qualitatively examines chemical processes and plant design by showing the factors determining process structures including the underlying chemistry feedstock product specifications and reactor design The book also compares the processes for different products based on raw materials and manufacturing processes based on their respective applications With the addition of useful flowcharts that present an overview of the chemical processes process design and equipment this book is a valuable resource to industry professionals on how to understand how hydrocarbons are produced from different raw materials and how to develop an instinct for the right process development strategy Provides a qualitative analysis of chemical processes and plant design by

showing the factors determining process structures Presents chemical processes in an organized easy to read and understandable manner with the use of useful flowcharts and concise descriptions Includes updates on changes in existing technological and chemical processes as well as possible future improvements or changes to other more economic or more readily available feedstocks Solar System Ices B. Schmitt, C. de Bergh, M. Festou, 2012-12-06 Predicted long ago to be present on the surface of planetary bodies by theoreticians and recently shown by interplanetary spacecraft and ground based instruments to be ubiquitous in the Solar System ices in a broad sense have become an extremely important subject in planetary research Ices found on objects formed in the remote parts of the Solar System contain a message about the composition and mode of formation of our planetary system There are also objects that contain icy materials that bear signatures of past events on a geological timescale Their study is one of the best means of inquiring about the origins accessing the past and anticipating the future of our Solar System The reviews in this book collect together a series of papers covering the physics and chemistry of ices as well as the geology of icy surfaces They present an extensive summary of their chemical and physical properties relevant to planetary astronomy They also provide an overview of planetary bodies that contain ices and the outstanding problems of the field Audience The book is intended to become a reference for researchers and graduate students It is accessible to senior graduate students with a background in planetary science Conterminous United States Mineral Appraisal Program Ticie A. Taylor, William Wallace Patton, Elizabeth Jean Moll, Joyce A. Dev, Harley D. King, 1984 Symposium Proceedings ,1984 U.S. Geological Survey Circular ,1984

Offshore Gas Hydrates Rudy Rogers, 2015-08-24 Gas hydrates collect and store both thermogenic and biogenic methane generated in deep ocean sediments that over geologic time forms vast methane repositories Offshore Gas Hydrates Origins Development and Production presents gas hydrates as an emerging clean energy source possibly more abundant than all other fossil fuels and especially important for countries geographically and economically restricted from conventional fossil fuel resources The book explores feasible methods to produce offshore hydrate gas the means to store and transport the remotely produced gas new hydrate inhibitors for conventional and hydrate production in ultra deep waters instability manifestations of seafloor hydrates and hydrate roles in complex ecological scenarios Complementing production and drilling method presentations are computer simulation studies hydrate field tests and seismic and logging developments Offshore Gas Hydrates delivers a well developed framework for both the oil and gas researcher and corporate engineer to better exploit this future unconventional resource empowering the oil and gas professional with the latest data and information on sophisticated challenges that offshore hydrates present Addresses the technical economic and environmental problems of producing hydrate gas Introduces the overlooked and unchartered role of microbes in catalyzing offshore hydrate formations with attendant effects on stability dissociation Reviews the latest world wide field tests research and case studies involving seafloor hydrates inclusive of most known hydrate provinces Displays two videos within the e book only 1 hydrates

carbonates chemosynthetic communities and natural hydrocarbon leakages on the seafloor at the Mississippi Canyon hydrate observatory site 2 hydrate nucleation migration and self packing in a laboratory test cell under the influence of anionic surfactants Extends deep water hydrate knowledge regarding the hydrate formation and protective cover for microbes within the extreme environment of Mars Volatiles in the Martian Crust Justin Filiberto, Susanne P. Schwenzer, 2018-08-30 Volatiles in the Martian Crust is a vital reference for future missions including ESA's EXO Mars and NASA's Mars2020 rover looking for evidence of life on Mars and the potential for habitability and human exploration of the Martian crust Mars science is a rapidly evolving topic with new data returned from the planet on a daily basis The book presents chapters written by well established experts who currently focus on the topic providing the reader with a fresh up to date and accurate view Organized into two main sections the first half of the book focuses on the Martian meteorites and specific volatile elements The second half of the book explores processes and locations on the crust including what we have learned about volatile mobility in the Martian crust Coverage includes data from orbiter and in situ rovers and landers geochemical and geophysical modeling and combined data from the SNC meteorites Presents information about the nature relationship and reactivity of chemical elements and compounds on Mars Explores the potential habitability of Mars Provides a comprehensive view of volatiles in the Martian crust from studies of actual samples as well as from the variety of landed missions including the MER and Curiosity rovers Delivers a vital reference for ongoing and future missions to Mars while synthesizing large data sets and research on volatiles in the Martian atmosphere Concludes with an informative summary chapter that looks to future Mars missions and what might be learned Geocryology Stuart A. Harris, Anatoli Brouchkov, Cheng Guodong, 2017-09-28 This book provides a general survey of Geocryology which is the study of frozen ground called permafrost Frozen ground is the product of cold climates as well as a variety of environmental factors Its major characteristic is the accumulation of large quantities of ice which may exceed 90% by volume Soil water changing to ice results in ground heaving while thawing of this ice produces ground subsidence often accompanied by soil flowage Permafrost is very susceptible to changes in weather and climate as well as to changes in the microenvironment Cold weather produces contraction of the ground resulting in cracking of the soil as well as breakup of concrete rock etc Thus permafrost regions have unique landforms and processes not found in warmer lands The book is divided into three parts Part 1 provides an introduction to the characteristics of permafrost Four chapters deal with its definition and characteristics the unique processes operating there the factors affecting it and its general distribution Part 2 consists of seven chapters describing the characteristic landforms unique to these areas and the processes involved in their formation Part 3 discusses the special problems encountered by engineers in construction projects including settlements roads and railways the oil and gas industry mining and the agricultural and forest industries The three authors represent three countries and three language groups and together have over 120 years of experience of working in permafrost areas throughout the world The

book contains over 300 illustrations and photographs and includes an extensive bibliography in order to introduce the **New Frontiers in Oil and Gas** interested reader to the large current literature Finalist of the 2019 PROSE Awards **Exploration** Congrui Jin, Gianluca Cusatis, 2016-10-07 This contributed volume presents a multi perspective collection of the latest research findings on oil and gas exploration and imparts insight that can greatly assist in understanding field behavior design of test programs and design of field operations With this book engineers also gain a powerful guide to the most commonly used numerical simulation methods that aid in reservoir modelling In addition the contributors explore development of technologies that allow for cost effective oil and gas exploration while minimizing the impact on our water resources surface and groundwater aguifers geological stability of impacted areas air quality and infrastructure assets such as roads pipelines water and wastewater networks Easy to understand the book identifies equipment and procedural problems inherent to oil and gas operations and provides systematic approaches for solving them Methane: Sources, Sinks, and Role in Global Change M.A.K. Khalil, 2013-06-29 Methane plays many important roles in the earth's environment It is a potent greenhouse gas that warms the earth controls the oxidizing capacity of the atmosphere OH indirectly affecting the cycles and abundances of many atmospheric trace gases provides water vapor to the stratosphere scavenges chlorine atoms from the stratosphere terminating the catalytic ozone destruction by chlorine atoms including the chlorine released from the man made chlorofluorocarbons produces ozone CO and CO2 in the troposphere and it is an index of life on earth and so is present in greater quantities during warm interglacial epochs and dwindles to low levels during the cold of ice ages By all measures methane is the second only to CO2 in causing future global warming The book presents a comprehensive account of the current understanding of atmospheric methane and it is an end point for summarizing more than a decade of intensive research on the global sources sinks concentrations and environmental role of methane

Alternative Energy Sources Andrzej L.Wasiak,2021-05-20 The search for alternative sources of energy is an attempt to solve two of the main problems facing the modern world Today s resources are mainly based on fossil flammable substances such as coal oil and natural gas The first problem is related to the expected and observed depletion of deposits not only those available but also less accessible Another is related to global warming from emissions of greenhouse gases mainly carbon dioxide as well as emissions of other pollutants in the atmosphere Mitigating the harmful effects of fossil fuel use is an obvious challenge for mankind This Special Issue includes articles on the search for new raw materials and new technologies for obtaining energy such as those existing in nature methane hydrates biomass etc new more efficient technologies for generating electricity as well as analyses of the possibilities and conditions of use of these resources for practical applications

Predicted Geoacoustic Properties of Gas Hydrate Saturated Marine Sediments William R. Curtis,1992

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