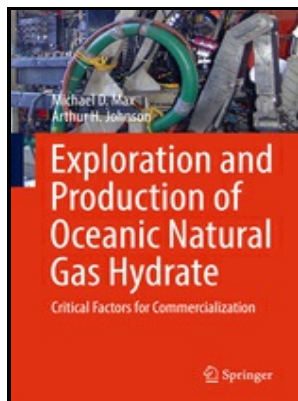


# Natural gas hydrates - a guide for engineers

Gulf Professional Pub. - Natural gas hydrates : a guide for engineers (eBook, 2002)  
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Description: -

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Cognition.

Piaget, Jean, -- 1896-1980.

Hydrates -- Analysis.

Natural gas -- Hydrates. Natural gas hydrates - a guide for engineers

-Natural gas hydrates - a guide for engineers

Notes: Includes bibliographical references and index.

This edition was published in 2003



Filesize: 66.25 MB

Tags: #Natural #Gas #Hydrates

## Read Natural Gas Hydrates Online by John Carroll

. Air hydrates are frequently observed in polar ice samples. Naturally, gas hydrates could be found on the seafloor- sea-, in ocean sediments, in deep lake sediments, as well as in the Permafrost regions.

## Read Natural Gas Hydrates Online by John Carroll

One lattice has voids sized to accept small molecules such as methane and larger molecules such as propane. Hydrocarbon gas and liquid water combine to form solids taking after wet snow at temperatures above at which water solidifies — become a solid. 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.

## Natural Gas Hydrates

How fast do they melt? This temperature reduction could cause the condensation of water vapour from the gas. Every volume is a must-have for any engineer or library. One of the results of that operation could cause gas losses that are finally vented towards the atmosphere.

## Natural Gas Hydrates: A Guide for Engineers By John Carroll

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. 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.

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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 being used in the field.

## **Knovel**

**HYDRATE-FORMING CONDITIONS FOR NATURAL GASES** Preventing hydrate formation appears to be the key to the problem. John earned a Bachelor of Science with Distinction and a Doctorate of Philosophy, both in Chemical Engineering from the University of Alberta. How fast do they melt? Description: 1 online resource xviii, 270 pages : illustrations Contents: Introduction -- Hydrate types and formers -- Hand calculation methods -- Computer methods -- Inhibiting hydrate formation with chemicals -- Dehydration of natural gas -- Combating hydrates using heat and pressure -- Physical properties of hydrates -- Phase diagrams -- Water content of natural gas.

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