



# Natural Gas Hydrates: A Guide for Engineers

By John Carroll

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

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

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

- Sales Rank: #11704453 in Books
- Published on: 2003-01-06
- Original language: English
- Number of items: 1
- Dimensions: .77" h x 6.32" w x 9.48" l,
- Binding: Hardcover
- 270 pages

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#### **Review**

"This text describes one of the most comprehensive studies of natural gas hydrates in history. It provides a review of what hydrates are and under what conditions they will form. It also provides the reader with the methods to predict occurrences of hydrates." --Sea Technology, March 2003

#### **About the Author**

John Carroll is currently Director, Geostorage Processing Engineering for Gas Liquids Engineering, Ltd. in Calgary. With more than 20 years of experience, he supports other engineers with software problems and provides information involving fluid properties, hydrates and phase equilibria. Prior to that, he has worked for Honeywell, University of Alberta as a seasonal lecturer, and Amoco Canada as a Petroleum Engineer. John has published a couple of books, sits on three editorial advisory boards, and he has authored/co-authored more than 60 papers. He has trained many engineers on natural gas throughout the world, and is a member of several associations including SPE, AIChE, and GPAC. John earned a Bachelor of Science (with Distinction) and a Doctorate of Philosophy, both in Chemical Engineering from the University of Alberta. He is a registered professional engineer in the province of Alberta and New Brunswick, Canada.

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