



# Thermal Insulation Handbook for the Oil, Gas, and Petrochemical Industries

By Alireza Bahadori

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*Thermal Insulation Handbook for the Oil and Gas Industries* addresses relative design, materials, procedures, and standard installation necessities for various oil and gas infrastructure such as pipelines, subsea equipment, vessels, and tanks. With the continued increase in available natural gas ready to export — especially LNG — and the definition of "deepwater" changing every year, an understanding of thermal insulation is more critical than ever. This one-of-a-kind handbook helps oil and gas engineers ensure that their products are exporting safely and that the equipment's integrity is protected. Topics include:

- Design considerations and component selection, including newer materials such as cellular glass
- Methods to properly install the insulation material and notable inspection and safety considerations in accordance with applicable US and international standards, specifically designed for the oil and gas industry
- Calculations to make sure that every scenario is considered and requirements for size, composition, and packaging are met effectively
- Understand all appropriate, new and existing, insulation material properties as well as installation requirements
- Gain practical knowledge on factors affecting insulation efficiency, rules of thumb, and links to real-world case studies
- Maximize flow assurance safely and economically with critical calculations provided

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**Bibliography**

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### Editorial Review

#### Review

" I bought a copy of this book and it is very useful for my job." P. J. Tiago Carlos, Brazil

“This handbook addresses the advanced engineering topics, new issues and challenges related to thermal insulation selection, design and installation in the oil and gas industries, which have not been addressed in depth in any existing books. The format of the book makes it a particularly valuable reference book for all engineers in the petroleum industry as well as a textbook for students in process, mechanical and chemical engineering curricula and in the training departments of a large group of oil and gas companies. It does provide practical advice for selection and installation of appropriate thermal insulation based on sound engineering principles and established techniques as well as introducing engineering solutions for thermal insulation problems based on new and emerging engineering knowledge”

?Jerry Jalili, Pacific Oil & Gas Pte Ltd.

#### About the Author

Alireza Bahadori, Ph.D., is a research staff member in the School of Environment, Science and Engineering at Southern Cross University, Lismore, NSW, Australia. He received his Ph.D. from Curtin University, Perth, Western Australia.

During the past twenty years, Dr. Bahadori has held various process and petroleum engineering positions and was involved in many large-scale projects at National Iranian Oil Co. (NIOC), Petroleum Development Oman (PDO), and Clough AMEC PTY LTD.

He is the author of 250 articles and 12 books. His books have been published by multiple major publishers, including Elsevier.

Dr. Bahadori is the recipient of the highly competitive and prestigious Australian Government's Endeavor International Postgraduate Research Award as part of his research in oil and gas area. He also received a Top-Up Award from the State Government of Western Australia through Western Australia Energy Research Alliance (WA:ERA) in 2009. Dr. Bahadori serves as a member of the editorial board and reviewer for a large number of journals. He was honored by Elsevier to be an outstanding author of the *Journal of Natural Gas Science and Engineering* in 2009.

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**Phyllis Baudoin:**

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