

Natural Gas Processing: Technology and Engineering Design

By Alireza Bahadori

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Natural gas is considered the dominant worldwide bridge between fossil fuels of today and future resources of tomorrow. Thanks to the recent shale boom in North America, natural gas is in a surplus and quickly becoming a major international commodity. Stay current with conventional and now unconventional gas standards and procedures with *Natural Gas Processing: Technology and Engineering Design*. Covering the entire natural gas process, Bahadori's must-have handbook provides everything you need to know about natural gas, including:

- Fundamental background on natural gas properties and single/multiphase flow factors
- How to pinpoint equipment selection criteria, such as US and international standards, codes, and critical design considerations
- A step-by-step simplification of the major gas processing procedures, like sweetening, dehydration, and sulfur recovery
- Detailed explanation on plant engineering and design steps for natural gas projects, helping managers and contractors understand how to schedule, plan, and manage a safe and efficient processing plant

- Covers both conventional and unconventional gas resources such as coal bed methane and shale gas
- Bridges natural gas processing with basic and advanced engineering design of natural gas projects including real world case studies
- Digs deeper with practical equipment sizing calculations for flare systems, safety relief valves, and control valves

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Editorial Review

Review

"This well written and well organized book with many interesting figures, graphs and tables will be a valuable resource for the natural engineering and scientific community. Engineers of many disciplines of oil and gas industries, project managers and students of natural gas engineering would also find the related sections of this book quite useful for their works and studies."

Dr. Emmanuel Obanijesu, Curtin University, Perth, WA, Australia

"This natural gas processing book would be an excellent addition to the reference collection of large academic libraries at universities with programs in oil and gas area. It is well organized and indexed, so the information is readily accessible to students as well as practicing engineers and managers"

Dr Ahmad Jamili, The University of Oklahoma, Norman, OK, USA

"The contents of the book are quite educational for newcomers to the field of natural gas engineering and processing as well as experiences professional engineers.It it is very thorough reference for those who are already involved in research and training of natural gas courses. The book is nicely divided into 16 chapters and has a comprehensive glossary of terms, references, valuable technical information, equations and formulas related to natural gas processing".

Jerry Jalili, Chartered Professional Engineer and Oil & Gas Consultant, Singapore.

About the Author
Alireza Bahadori, PhD, CEng, MIChemE, CPEng, MIEAust, RPEQ, NER is a research staff member in the School of Environment, Science and Engineering at Southern Cross University, Lismore, NSW, Australia, and managing director and CEO of Australian Oil and Gas Services, Pty. Ltd. He received his PhD 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 oil and gas projects. His multiple books have been published by multiple major publishers, including Elsevier. He is Chartered Engineer (CEng) and Chartered Member of Institution of Chemical Engineers, London, UK (MIChemE). Chartered Professional Engineer (CPEng) and Chartered Member of Institution of Engineers Australia, Registered Professional Engineer of Queensland (RPEQ), Registered Chartered Engineer of Engineering Council of United Kingdom and Engineers Australia's National Engineering Register (NER).

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