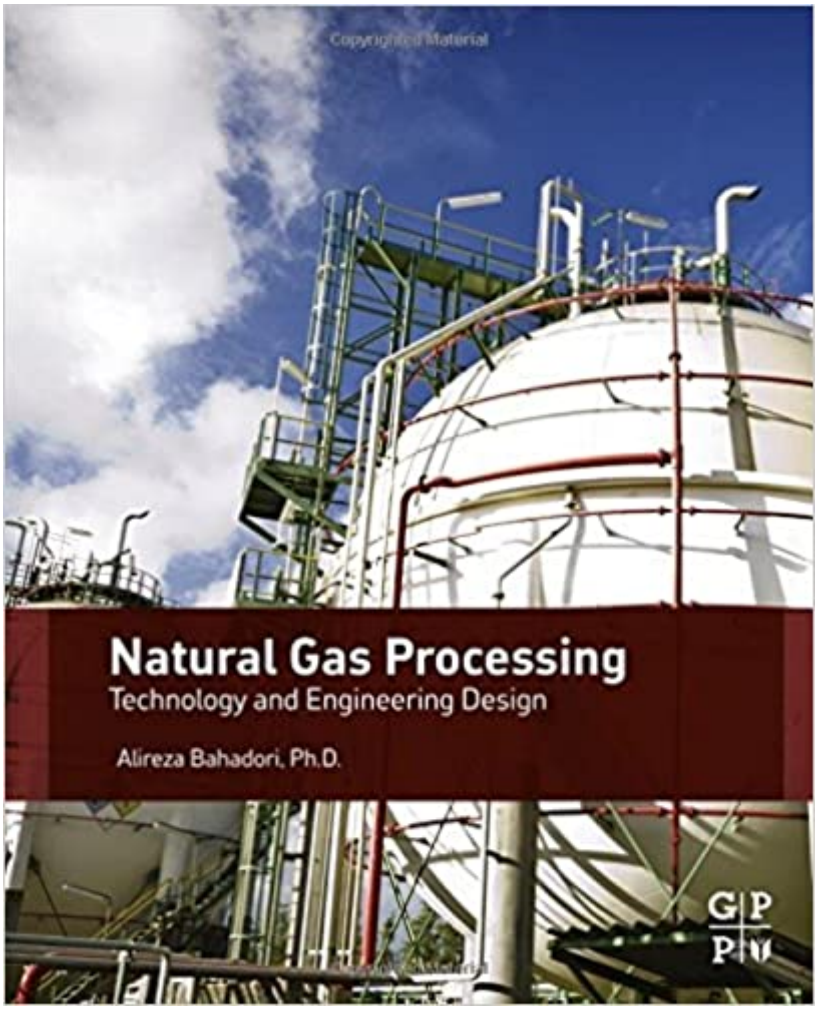
Natural Gas Processing: Technology And Engineering Design



Synopsis

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 factorsHow to pinpoint equipment selection criteria, such as US and international standards, codes, and critical design considerationsA step-by-step simplification of the major gas processing procedures, like sweetening, dehydration, and sulfur recoveryDetailed 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 plantCovers both conventional and unconventional gas resources such as coal bed methane and shale gasBridges natural gas processing with basic and advanced engineering design of natural gas projects including real world case studiesDigs deeper with practical equipment sizing calculations for flare systems, safety relief valves, and control valves

Book Information

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Customer Reviews

" This is fantastic contribution to natural gas industry" Ã Â K. Al-Ghamdi, Saudi Aramco"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 processingÃ Â bookÃ Â 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"Ã Â 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". JerryÃ Â Jalili, Chartered Professional Engineer and Oil & Gas Consultant, Singapore.

Alireza Bahadori, Ph.D.,Ã Â 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 twentyÃ Â 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 andÃ Â reviewer for a large number of journals. He was honored by Elsevier to be an outstanding author of theÃ Â Journal of Natural Gas Science and EngineeringÃ Â in 2009.

Very helpful to engineer student son

Excellent book on an engineering level. A little too entailed for someone trying to learn basic principles of plant processes. Extensive formula breakdowns for engineering. Doesn’t go in much

detail about gas processing from inlet receiver to finished product exiting the plant.

Natural Gas Processing: Technology and Engineering Design Molecular Gas Dynamics and the Direct Simulation of Gas Flows (Oxford Engineering Science Series) Engineering Materials 2: An Introduction to Microstructures, Processing and Design (International Series on Materials Science and Technology) (v. 2) Handbook of Natural Gas Transmission and Processing, Third Edition: Principles and Practices Handbook of Natural Gas Transmission and Processing: Principles and Practices Handbook of Natural Gas Transmission and Processing Handbook of Natural Gas Transmission and Processing, Second Edition Fundamentals of Natural Gas Processing, Second Edition Plant Processing of Natural Gas Troubleshooting Natural Gas Processing: Wellhead to Transmission Biomimetic Materials And Design: Biointerfacial Strategies, Tissue Engineering And Targeted Drug Delivery (Manufacturing Engineering & Materials Processing) Modern Ceramic Engineering: Properties, Processing, and Use in Design, 3rd Edition (Materials Engineering) Molecular Gas Dynamics: Theory, Techniques, and Applications (Modeling and Simulation in Science, Engineering and Technology) Engineering Materials 2, Fourth Edition: An Introduction to Microstructures and Processing (International Series on Materials Science and Technology) Gravity Sanitary Sewer Design and Construction (ASCE Manuals and Reports on Engineering Practice No. 60) (Asce Manuals and Reports on Engineering ... Manual and Reports on Engineering Practice) Engineering Materials Technology: Structures, Processing, Properties, and Selection (5th Edition) Engineering Materials Technology: Structures, Processing, Properties and Selection (4th Edition) Natural Gas Engineering: Production and Storage (McGraw-Hill Series in Management) Standard Handbook of Petroleum and Natural Gas Engineering, Third Edition Standard Handbook of Petroleum and Natural Gas Engineering, Second Edition