Gas Dehydration Field Manual

By Maurice Stewart, Ken Arnold

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Gas Dehydration Field Manual presents different methods of gas dehydration, focusing on the differences between adsorption and absorption. It discusses the various designs and operations in a gas processing facility. As an introduction, the book provides different concepts and theories that describe the gas processing industry. It then discusses the processes involved in the gas processing industry, which include absorption, adsorption, glycol regeneration, glycol filtration, and carbon purification.
The book is divided into three parts. The first part discusses some of the basic terms and concepts of gas dehydration. The second part focuses on the factors involved in the different gas-dehydration methods. It also describes the difference between absorption and adsorption, as well as the process involved in glycol dehydration. The last part of the book discusses the proper care, maintenance, and troubleshooting methods of glycol dehydration process.
This book is mainly designed for engineers, technologists, and operating personnel in the gas processing industry. Aside from engineers and process designers, readers who are interested in the different processes involved in gas dehydration will find this book a useful guide and reference.

- Include hydrate prevention, chemical injection systems, hydrate inhibitor methods
- Condensation process, Glycol Regeneration and Molecular Sieves
- An appendix provides the reader with additional exercises and solutions

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Gas Dehydration Field Manual By Maurice Stewart, Ken Arnold Bibliography

- Sales Rank: #1961287 in Books
- Published on: 2011-08-22
- Released on: 2011-08-08
- Original language: English
- Number of items: 1
- Dimensions: 7.38" h x .61" w x 4.38" l, .55 pounds
- Binding: Paperback
- 260 pages

Editorial Review

From the Back Cover

Over the years, LP Gas has increasingly played a valuable role in meeting the world’s growing demand for energy. Countries like Brazil, Russia, India, and China are rapidly expanding markets, with LP Gas in a position to provide everyone with access to clean and modern energy. Gas Dehydration Field Manual helps users to save time and money by keeping vital equipment running smoothly.

Designed for engineers, technologists, and operations personnel involved in the design and operation of gas processing facilities, the book starts with an explanation of the terms and theories used throughout the industry. This is followed by clear and rigorous exposition of dehydration processes such as Condensation process, Glycol Regeneration and Molecular Sieves. Exercises appear at the conclusion of each chapter with hints in addition to full solutions.

Other topics include hydrate prevention, chemical injection systems, hydrate inhibitor methods. Chapters involving applications cover dehydrate considerations, operation principles, hydrate production correlations and production of operating temperatures and Pressures and glycol maintenance, care and trouble-shooting. An appendix provides the reader with additional exercises and solutions.

About the Author
Dr. Maurice Stewart, PE, a Registered Professional Engineer with over 40 years international consulting experience in project management; designing, selecting, specifying, installing, operating, optimizing, retrofitting and troubleshooting oil, water and gas handling, conditioning and processing facilities; designing plant piping and pipeline systems, heat exchangers, pressure vessels, process equipment, and pumping and compression systems; and leading hazards analysis reviews and risk assessments.

Ken Arnold is a Senior Technical Advisor for WorleyParsons in Houston, TX. Spanning over 50 years of experience, he spent 16 years' in facilities engineering, project engineering and engineering management with Shell before forming Paragon Engineering Services in 1980. Arnold retired from Paragon in 2007 and formed K Arnold Consulting, Inc. In 2010, he joined WorleyParsons as part-time advisor while still managing the consulting firm. He participated in the initial development of several API safety related Recommended Practices including RP 75 and RP 14J and most recently was Chair of the National Academies Committee on Evaluating the Effectiveness of Offshore Safety and Environmental Management Systems. He has served on the Board of SPE as its first Director of Projects, Facilities and Construction and then later as VP Finance. He is currently Treasurer of The Academy of Medicine, Engineering and Science of Texas. Arnold has a BSCE degree from Cornell and MS degree from Tulane and has taught facilities engineering in the University of Houston Petroleum Engineering program and for several oil companies. He is a registered professional engineer and serves on the advisory board of the engineering schools of Tulane University, Cornell University and the Petroleum Engineering Advisory Board of the University of Houston. Recently, Ken received the 2013 Distinguished Achievement Award, considered one of the highest recognitions anyone can achieve in the offshore industry, at this year's Offshore Technology Conference in Houston, TX for his outstanding leadership and extensive contributions to the E&P industry. His many achievements include playing an integral role in the offshore industry's focus on safety through the development of Recommended Practices for offshore design and safety management, and he developed approaches to both equipment sizing and facility project management that are still in use today. He has also

been instrumental in the effort to establish oilfield facilities engineering as a recognized technical engineering specialty.

Users Review

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