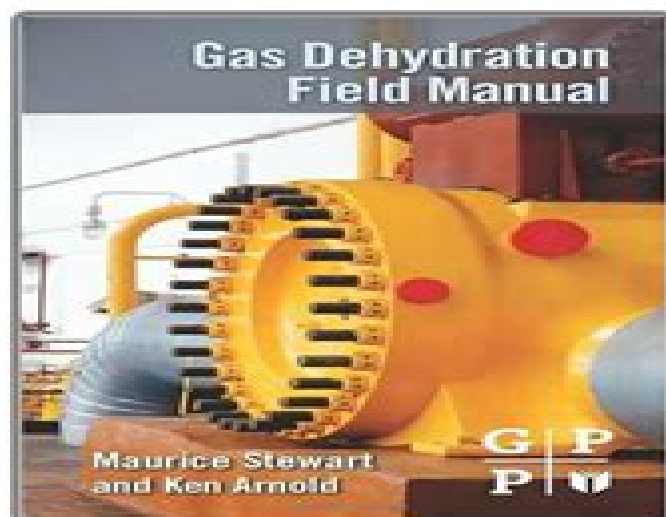


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# Gas Dehydration Field Manual

**West Virginia University. Engineering  
Experiment Station**



## **Gas Dehydration Field Manual:**

**Gas Dehydration Field Manual** Maurice Stewart, Ken Arnold, 2011-08-08 Raw natural gas typically contains a substantial amount of water which can degrade heating value and contribute to the formation of corrosion in piping and other equipment Under certain conditions natural gas hydrates can form which can cause pipe blockages Although dehydration historically has been a fairly inexpensive step in the upgrading of natural gas to pipeline quality costs are increasing Gas Dehydration Field Manual defines the various methods of gas dehydration and discusses the differences between adsorption and absorption 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 hydrate 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 Engineers and process designers will find this text a valuable guide to gas dehydration processes and equipment both in terms of its application to efficient and cost effective operations It will prove particularly useful to readers who want a quick reference guide to field operations and procedures as well as those readers who wish to increase their knowledge of best practices 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

**Gas Dehydration Field Manual** Maurice Stewart, Ken Arnold, 2011-07-13 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      **Dehydration of Natural Gas with Glycol** Shawn Gipson,2018-01-17 Dehydration of Natural Gas with Glycol discusses in plain language the process of natural gas dehydration describes the equipment used and provides practical advice for the operation and maintenance of glycol dehydration equipment      Mitigation of Gas Pipeline Integrity Problems Mavis Sika Okyere,2020-10-04 Mitigation of Gas Pipeline Integrity Problems presents the methodology to enable engineers experienced or not to alleviate pipeline integrity problems during operation It explains the principal considerations and establishes a common approach in tackling technical challenges that may arise during gas production Covers third party damage corrosion geotechnical hazards stress corrosion cracking off spec sales gas improper design or material selection as built flaws improper operations and leak and break detection Details various hazard mitigation options Offers tested concepts of pipeline integrity blended with recent research results documented in a scholarly fashion to make it simple to the average reader This practical work serves the needs of advanced students researchers and professionals working in pipeline engineering and petrochemical industries

Upstream, Midstream, Downstream Process simulation and Design Editoiu Mihail (author),2021-07-01 The ebook shall drive you in a Simulation World from Upstream Midstream and Downstream Sectors Step by step simulation procedure including key technical parameters and neutral layout to be implemented in any available flowsheet simulator thermo package recommendation and design tips specific for each type of presented Unit Process ALL necessary information to build a professional simulation are included Starting from Upstream processes like FPSO GOSP then passing to Midstream with Mercury Removal Amine Unit Glycol Molecular Sieve Dehydration NGL Recovery and complete Fractionation Train then arriving Downstream to Refinery where Crude Vacuum Condensate Distillation Units are touch various Strippers like NHT Distillate VGO Reformate Splitter and Stripper are presented FCC Hydrocracking Separation Sections Saturated Gas Plant Sour Water Stripping Unit plus Sulfur Recovery TGT and finally to Petrochemical sector where PP Splitter with heat pump BT Fractionation and Aromatic Separation are give out Also four special chapters are part of the ebook MDMT rigorous calculation including tensile stress of wall expose to fire with practical examples one vessel and multiple equipment protected by the same depressurization valve HIPPS implementation for FPSO and Toluene Separation dynamic simulation layout with integrator settings and various scenarios CPA validation against experimental data with extensive graphs showing equilibrium for various literatures available experimental data and Divided Wall Column DWC Opex Capex quick tips and simulation optimization tricks The above four special chapters are a must considering that in Upstream MDMT rigorous calculation is vital CPA validation against experimental data used to compute necessary flow rate of hydrate inhibitor MeOH Mercury distribution between vapor liquid and water phases are essential HIPPS to minimize flare loads with Upstream Downstream applications and the last one but important the DWC which gain more and more in all sectors At the end of each chapter the reader shall find Take Away section with useful technical information to be discovered      **Recent Advances in**

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Poe,James G. Speight,2017-09-01 Handbook of Natural Gas Transmission and Processing gives engineers and managers complete coverage of natural gas transmission and processing in the most rapidly growing sector to the petroleum industry The authors provide a unique discussion of new technologies that are energy efficient and environmentally appealing at the same time It is an invaluable reference on natural gas engineering and the latest techniques for all engineers and managers moving to natural gas processing as well as those currently working on natural gas projects Provides practicing engineers critical information on all aspects of gas gathering processing and transmission First book that treats multiphase flow transmission in great detail Examines natural gas energy costs and pricing with the aim of delivering on the goals of efficiency quality and profit     **Saudi Arabia Investment and Business Guide Volume 1 Strategic and Practical Information** IBP, Inc.,2015-09-11 Saudi Arabia Investment and Business Guide Volume 1 Strategic and Practical Information

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