



Desiccant Bed Design Manual For Natural Gas

Raffaella Di Napoli



Desiccant Bed Design Manual For Natural Gas:

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. Includes 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 Sweetening and Processing Field Manual Maurice Stewart, Ken Arnold, 2011-10-15 Although the processing of natural gas is in many respects less complicated than the processing and refining of crude oil, it is equally as necessary before its use by end users. The actual process used to separate oil from natural gas as well as the equipment that is used can vary widely. Gas Sweetening and Processing Field Manual provides engineers with the ability to understand and select the most efficient and cost effective method to fit their individual needs. 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 sweetening processes such as Solid Bed Adsorption, Chemical Solvents, Physical Solvents, Distillation, and Gas Permeation. Exercises appear at the conclusion of each chapter with hints in addition to full solutions. Other topics include Design Procedure, Design Examples, Problems and Practical Solutions, Value of NGL Components, Liquid Recovery Process, Absorption, Lean Oil Process, Joule Thomson Refrigeration, and Cryogenic Expansion Turbine Plants. Chapters involving applications cover Direct Conversion of H₂S to Sulfur, Removal of H₂S to Meet Pipeline Qualities, Removal of CO₂ to Meet Pipeline Qualities, and Selection Charts. Engineers and process designers will find this text a valuable guide to gas sweetening process 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. Rigorous exposition of all natural gas sweetening processes. Equipment and process troubleshooting techniques. Tips for diagnosing and solving equipment and process problems. Exercises appear at the

conclusion of each chapter **Design Manual** ,1986 **Technical Manual** United States Department of the Army,1964

Design Manual United States. Naval Facilities Engineering Command,1972 **ASHRAE Handbook & Product Directory** ,1975 A Manual for the Chemical Analysis of Metals , **Manual on Requirements, Handling, and Quality Control of Gas Turbine Fuel** ,1973 **Manual on Requirements Handling and Quality Control of Gas Turbinefuel** H. VonE. Doering,1973 **Energy: a Continuing Bibliography with Indexes** ,1980 **ASHRAE Handbook & Product Directory** American Society of Heating, Refrigerating and Air-Conditioning Engineers,1975

Energy ,1983 **Essentials of Oil and Gas Utilities** Alireza Bahadori,2016-02-03 Every oil and gas refinery or petrochemical plant requires sufficient utilities support in order to maintain a successful operation A comprehensive utilities complex must exist to distribute feedstocks discharge waste streams and remains an integrated part of the refinery s infrastructure Essentials of Oil and Gas Utilities explains these support systems and provides essential information on their essential requirements and process design This guide includes water treatment plants condensate recovery plants high pressure steam boilers induced draft cooling towers instrumentation plant air compressors and units for a refinery fuel gas and oil systems In addition the book offers recommendations for equipment and flow line protection against temperature fluctuations and the proper preparation and storage of strong and dilute caustic solutions Essentials of Oil and Gas Utilities is a go to resource for engineers and refinery personnel who must consider utility system design parameters and associated processes for the successful operations of their plants Discusses gaseous and liquid fuel systems used to provide heat for power generation steam production and process requirements Provides a design guide for compressed air systems used to provide air to the various points of application in sufficient quantity and quality and with adequate pressure for efficient operation of air tools or other pneumatic devices Explains the water systems utilized in plant operations which include water treatment systems or raw water and plant water system cooling water circuits for internal combustion engines reciprocating compressors inter cooling and after cooling facilities and Hot Oil and Tempered Water systems Energy Conservation: Resource directory ,1987 Carbon Dioxide Removal System of the Regenerable Solid Adsorbent Type G. A. Remus,P. P. Nuccio,R. J. Honegger,1969 The development of a regenerable carbon dioxide removal system is discussed The system utilizes solid zeolites to adsorb carbon dioxide and silica gel for predrying the gas stream The system is completely regenerable operates automatically and continuously and provides for storage of the removed carbon dioxide It is operable over a wide range of cabin environments and provides flexibility in varying the system operating parameters It may be used to determine the thermodynamic requirements of a flight type system for a particular cabin gas composition The system can remove the carbon dioxide from four crewmen and maintain the carbon dioxide partial pressure between 4 and 5 mm Hg absolute at atmospheric pressure operation and between 6 and 7 mm Hg when operating at 350 mm Hg total pressure It has this removal capacity when the cabin atmosphere is composed of 13 mm Hg water vapor partial pressure 160 mm Hg oxygen

partial pressure and either nitrogen or helium as the makeup gas An external control console is provided which permits the system to be operated in an unmanned chamber The system is not optimized for power and weight as a laboratory model the total average power required is 4000 watts and the total weight including the mounting frame is 250 pounds Author

American Gas Journal ,1951 Solar Energy Update ,1983 *The Oil and Gas Journal* ,1955 *Gas* ,1955
Energy Research Abstracts ,1991

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