



Figure 2 Proposed Sulzer KnitMesh coalescer and Shell Swirltube separator

Glycol Contactor Column Drawings

Alireza Bahadori



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Rules of Thumb for Chemical Engineers Stephen M Hall, 2011-03-31 This new edition of the most complete handbook for chemical and process engineers incorporates the latest information for engineers and practitioners who depend on it as a working tool New material explores the recent trends and updates of gas treating and fractionator computer solutions analysis Substantial additions to this edition include a new section on gasification that reflects the many new trends and techniques in the field and a treatment on compressible fluid flow This convenient volume provides engineers with hundreds of common sense techniques shortcuts and calculations to quickly and accurately solve day to day design operations and equipment problems Here in a compact easy to use format are practical tips handy formulas correlations curves charts tables and shortcut methods that will save engineers valuable time and effort The standard handbook for chemical and process engineers All new material on pinch point analysis on networks of heat exchangers and updates on gas treating in process design and heat transfer Hundreds of common sense techniques and calculations *Gas Purification* Arthur L Kohl, Richard Nielsen, 1997-08-28 This massively updated and expanded fifth edition is the most complete authoritative engineering treatment of the dehydration and gas purification processes used in industry today Of great value to design and operations engineers it gives practical process and equipment design descriptions basic data plant performance results and other detailed information on gas purification processes and hardware This latest edition incorporates all significant advances in the field since 1985 You will find major new chapters on the rapidly expanding technologies of nitrogen oxide control with discussions of regulatory requirements and available processes absorption in physical solvents covering single component and mixed solvent systems and membrane permeation with emphasis on the gas purification applications of membrane units In addition new sections cover areas of strong current interest particularly liquid hydrocarbon treating Claus plant tail gas treating thermal oxidation of volatile organic compounds and sulfur scavenging processes This volume brings you expanded coverage of alkanolamines for hydrogen sulfide and carbon dioxide removal the removal and use of ammonia in gas purification the use of alkaline salt solutions for acid gas removal and the use of water to absorb gas impurities The basic technologies and all significant advances in the following areas are thoroughly described sulfur dioxide removal and recovery processes processes for converting hydrogen sulfide to sulfur liquid phase oxidation processes for hydrogen sulfide removal the absorption of water vapor by dehydrating solutions gas dehydration and purification by adsorption and the catalytic and thermal conversion of gas impurities Petroleum Production Engineering Boyun Guo, Xinghui Liu, Xuehao Tan, 2017-02-10 Petroleum Production Engineering Second Edition updates both the new and veteran engineer on how to employ day to day production fundamentals to solve real world challenges with modern technology Enhanced to include equations and references with today's more complex systems such as working with horizontal wells workovers and an entire new section of chapters dedicated to flow assurance this go to reference remains the most all inclusive source for answering all upstream

and midstream production issues Completely updated with five sections covering the entire production spectrum including well productivity equipment and facilities well stimulation and workover artificial lift methods and flow assurance this updated edition continues to deliver the most practical applied production techniques answers and methods for today s production engineer and manager In addition updated Excel spreadsheets that cover the most critical production equations from the book are included for download Updated to cover today s critical production challenges such as flow assurance horizontal and multi lateral wells and workovers Guides users from theory to practical application with the help of over 50 online Excel spreadsheets that contain basic production equations such as gas lift potential multilateral gas well deliverability and production forecasting Delivers an all inclusive product with real world answers for training or quick look up solutions for the entire petroleum production spectrum

Handbook of Natural Gas Transmission and Processing Saeid Mokhatab, William A. Poe, 2012-07-02 Acquire the tools and techniques that will help meet the world s growing natural gas demand Handbook of Natural Gas Transmission and Processing 2nd Edition gives engineers and managers complete coverage of natural gas transmission and processing in the most rapidly growing sector to the petroleum industry Emphasizing the practical aspects of natural gas production over the theoretical the authors provide a unique discussion of new technologies that are energy efficient and environmentally appealing at the same time This 2nd edition examines ways to select the best processing route for optimal design of gas processing plants and includes three new chapters on dynamics of process controls process modeling and simulation and optimal design of gas processing plants Both Chapter 7 Acid Gas Treating and Chapter 9 Natural Gas Dehydration are heavily revised The objective of this work is to provide plant designers and owners operators methods to decrease construction costs and total cost of ownership while addressing reliability and availability

Cryogenic Valves for Liquefied Natural Gas Plants Karan Sotoodeh, 2022-05-18 Natural gas and liquefied natural gas LNG continue to grow as a part of the sustainable energy mix While oil and gas companies look to lower emissions one key refinery component that contributes up to 60% of emissions are valves mainly due to poor design sealing and testing Cryogenic Valves for Liquefied Natural Gas Plants delivers a much needed reference that focuses on the design testing maintenance material selection and standards needed to stay environmentally compliant at natural gas refineries Covering technical definitions case studies and Q A the reference includes all ranges of natural gas compounds including LPG CNG NGL and PNG Key design considerations are included that are specific for cryogenic services including a case study on cryogenic butterfly valves The material selection process can be more complex for cryogenic services so the author goes into more detail about materials that adhere to cryogenic temperature resistance Most importantly testing of valves is covered in depth including shell test closure or seat test and thermal shock tests along with tactics on how to prevent dangerous cryogenic leaks which are very harmful to the environment The book is a vital resource for today s natural gas engineers Teaches LNG valve design including sealing selection wall thickness calculation of the valve body and bonnet and

proper material selection Provides tactics on how to prevent cryogenic leaks with compliant valve testing Applies natural gas calculations that will better support the LNG supply chain Enables readers to understand cryogenic valve standards including EN ISO and MSS SP

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

Petroleum Refining Design and Applications Handbook, Volume 1 A. Kayode Coker, 2018-09-05 There is a renaissance that is occurring in chemical and process engineering and it is crucial for today's scientists engineers technicians and operators to stay current With so many changes over the last few decades in equipment and processes petroleum refining is almost a living document constantly needing updating With no new refineries being built companies are spending their capital re tooling and adding on to existing plants Refineries are like small cities today as they grow bigger and bigger and more and more complex A huge percentage of a refinery can be changed literally from year to year to account for the type of crude being refined or to integrate new equipment or processes This book is the most up to date and comprehensive coverage of the most significant and recent changes to petroleum refining presenting the state of the art to the engineer scientist or student Useful as a textbook this is also an excellent handy go to reference for the veteran engineer a volume no chemical or process engineering library should be without Written by one of the world's foremost authorities this book sets the standard for the industry and is an integral part of the petroleum refining renaissance It is truly a must have for any practicing engineer or student in this area

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

Offshore Petroleum Drilling and Production Sukumar Laik,2018-02-01 The key focus of the book is on engineering aspects of the subject field Updated comprehensive text covering offshore drilling production and field development and offers complete coverage of offshore oil and gas operations Also key maintenance issues like pigging corrosion subsidence are discussed

Petroleum and Gas Field Processing Hussein K. Abdel-Aal,Mohamed A. Aggour,Mohamed A. Fahim,2003-07-03 The immediate product extracted from oil and gas wells consists of mixtures of oil gas and water that is difficult to transport requiring a certain amount of field processing This reference analyzes principles and procedures related to the processing of reservoir fluids for the separation handling treatment and production of quality petroleum oil and gas products It details strategies in equipment selection and system design field development and operation and process simulation and control to increase plant productivity and safety and avoid losses during purification treatment storage and export Providing guidelines for developing efficient and economical treatment systems the book features solved design examples that demonstrate the application of developed design equations as well as review problems and exercises of key engineering concepts in petroleum field development and operation

Introduction to Chemical Engineering Uche P. Nnaji,2019-10-08 The field of chemical engineering is undergoing a global renaissance with new processes equipment and sources changing literally every day It is a dynamic important area of study and the basis for some of the most lucrative and integral fields of science Introduction to Chemical Engineering offers a comprehensive overview of the concept principles and applications of chemical engineering It

explains the distinct chemical engineering knowledge which gave rise to a general purpose technology and broadest engineering field The book serves as a conduit between college education and the real world chemical engineering practice It answers many questions students and young engineers often ask which include How is what I studied in the classroom being applied in the industrial setting What steps do I need to take to become a professional chemical engineer What are the career diversities in chemical engineering and the engineering knowledge required How is chemical engineering design done in real world What are the chemical engineering computer tools and their applications What are the prospects present and future challenges of chemical engineering And so on It also provides the information new chemical engineering hires would need to excel and cross the critical novice engineer stage of their career It is expected that this book will enhance students understanding and performance in the field and the development of the profession worldwide Whether a new hire engineer or a veteran in the field this is a must have volume for any chemical engineer s library

Advanced Natural Gas Engineering Xiuli Wang, Michael Economides, 2013-11-25 Natural gas is playing an increasing role in meeting world energy demands because of its abundance versatility and its clean burning nature As a result lots of new gas exploration field development and production activities are under way especially in places where natural gas until recently was labeled as stranded Because a significant portion of natural gas reserves worldwide are located across bodies of water gas transportation in the form of LNG or CNG becomes an issue as well Finally natural gas is viewed in comparison to the recently touted alternatives Therefore there is a need to have a book covering all the unique aspects and challenges related to natural gas from the upstream to midstream and downstream All these new issues have not been addressed in depth in any existing book To bridge the gap Xiuli Wang and Michael Economides have written a new book called Advanced Natural Gas Engineering This book will serve as a reference for all engineers and professionals in the energy business It can also be a textbook for students in petroleum and chemical engineering curricula and in training departments for a large group of companies

Ludwig's Applied Process Design for Chemical and Petrochemical Plants A. Kayode Coker, 2010-07-19 The Fourth Edition of Applied Process Design for Chemical and Petrochemical Plants Volume 2 builds upon the late Ernest E Ludwig s classic chemical engineering process design manual Volume Two focuses on distillation and packed towers and presents the methods and fundamentals of plant design along with supplemental mechanical and related data nomographs data charts and heuristics The Fourth Edition is significantly expanded and updated with new topics that ensure readers can analyze problems and find practical design methods and solutions to accomplish their process design objectives A true application driven book providing clarity and easy access to essential process plant data and design information Covers a complete range of basic day to day petrochemical operation topics Extensively revised with new material on distillation process performance complex mixture fractionating gas processing dehydration hydrocarbon absorption and stripping enhanced distillation types

Practical Engineering Management of Offshore Oil and Gas Platforms Naeim Nouri

Samie,2016-05-06 Practical Engineering Management of Offshore Oil and Gas Platforms delivers the first must have content to the multiple engineering managers and clients devoted to the design equipment and operations of offshore oil and gas platforms Concepts explaining how to interact with the various task forces getting through bid proposals and how to maintain project control are all covered in the necessary training reference Relevant equipment and rule of thumb techniques to calculate critical features on the design of the platform are also covered including tank capacities and motor power along with how to consistently change water oil and gas production profiles over the course of a project The book helps offshore oil and gas operators and engineers gain practical understanding of the multiple disciplines involved in offshore oil and gas projects using experience based approaches and lessons learned Delivers the first ever must have content to the multiple engineering managers and clients devoted to the design equipment and operations of offshore oil and gas platforms Contains rules of thumb techniques to calculate critical features on the design of the platform Includes practical checklists for project estimates and cost evaluation for effective project execution in budgeting and scheduling Helps offshore oil and gas operators and engineers gain practical understanding of the multiple disciplines involved in offshore oil and gas projects using experience based approaches and lessons learned

Fundamentals of Natural Gas Processing, Third Edition

Arthur J. Kidnay,William R. Parrish,Daniel G. McCartney,2019-10-01 Offering indispensable insight from experts in the field Fundamentals of Natural Gas Processing Third Edition provides an introduction to the gas industry and the processes required to convert wellhead gas into valuable natural gas and hydrocarbon liquids products including LNG The authors compile information from the literature meeting proceedings short courses and their own work experiences to give an accurate picture of where gas processing technology stands today as well as to highlight relatively new technologies that could become important in the future The third edition of this bestselling text features updates on North American gas processing and changing gas treating requirements due to shale gas production It covers the international nature of natural gas trade LNG economics and more To help nonengineers understand technical issues the first 5 chapters present an overview of the basic engineering concepts applicable throughout the gas oil and chemical industries The following 15 chapters address natural gas processing with a focus on gas plant processes and technologies The book contains 2 appendices The first contains an updated glossary of gas processing terminology The second is available only online and contains useful conversion factors and physical properties data Aimed at students as well as natural gas processing professionals this edition includes both discussion questions and exercises designed to reinforce important concepts making this book suitable as a textbook in upper level or graduate engineering courses

Fundamentals of Natural Gas

Processing Arthur J. Kidnay,William R. Parrish,Daniel G. McCartney,2011-01-05 Offering indispensable insight from experts in the field Fundamentals of Natural Gas Processing Second Edition provides an introduction to the gas industry and the processes required to convert wellhead gas into valuable natural gas and hydrocarbon liquids products The authors compile

information from the literature meeting proceedings and the *Natural Gas Engineering Handbook* Boyan Guo, Ali Ghalambor, 2014-04-14 The demand for energy consumption is increasing rapidly To avoid the impending energy crunch more producers are switching from oil to natural gas While natural gas engineering is well documented through many sources the computer applications that provide a crucial role in engineering design and analysis are not well published and emerging technologies such as shale gas drilling are generating more advanced applications for engineers to utilize on the job To keep producers updated Boyun Guo and Ali Ghalambor have enhanced their best selling manual *Natural Gas Engineering Handbook* to continue to provide upcoming and practicing engineers the full scope of natural gas engineering with a computer assisted approach A focus on real world essentials rather than theory Illustrative examples throughout the text Working spreadsheet programs for all the engineering calculations on a free and easy to use companion site Exercise problems at the end of every chapter including newly added questions utilizing the spreadsheet programs Expanded sections covering today's technologies such as multi fractured horizontal wells and shale gas wells *Natural Gas Processing* Alireza Bahadori, 2014-05-05 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 **SPE Reprint Series**, 1996 **Quarterly Bulletin of the Canadian Mining Institute** Canadian Institute of Mining and Metallurgy, Canadian Institute of Mining, Metallurgy and Petroleum, 1928

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