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Chemical Process Retrofitting and Revamping
Gas Sweetening and Processing Field Manual
Multi-Objective Optimization
Fortran Programs for Chemical Process Design, Analysis, and Simulation
Fundamentals and Applications
Surface Production Operations: Vol 2: Design of Gas-Handling Systems and Facilities
Handbook of Natural Gas Transmission and Processing
Reactor and Process Design in Sustainable Energy Technology
Petroleum and Gas Field Processing
Gas Separation Membranes
Technology and Engineering Design
Special Report of the Intergovernmental Panel on Climate Change
28TH EUROPEAN SYMPOSIUM ON COMPUTER AIDED PROCESS ENGINEERING
Corrosion in Amine Treating Units
Oil and Gas Production Handbook: An Introduction to Oil and Gas Production
Gas Capture Processes
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Surface Production Operations: Vol 2: Design of Gas-Handling Systems and Facilities
Multi-objective Optimization: Techniques And Applications In Chemical Engineering (Second Edition)
Process Systems and Materials for CO2 Capture
17th Asia Simulation Conference, AsiaSim 2017, Melaka, Malaysia, August 27 – 29, 2017, Proceedings, Part II
Techniques and Applications
Principles and Practices
Advanced Natural Gas Engineering
Energy Research Abstracts
Handbook of Natural Gas Transmission and Processing
Fundamentals of Natural Gas Processing, Third Edition
Fundamentals of Natural Gas Processing
Volume 2: Distillation, packed towers, petroleum fractionation, gas processing and dehydration
Natural Gas Processing
Fundamentals and Practical Aspects of Gas Injection
Fossil Energy Update
Ludwig's Applied Process Design for Chemical and Petrochemical Plants
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Gas Purification
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CASTANEDA ADRIENNE

Chemical Process Retrofitting and Revamping Springer
Optimization is now essential in the design, planning and operation of chemical and related processes. Although process optimization for multiple objectives was studied in the 1970s and 1980s, it has attracted active research in the last 15 years, spurred by the new and effective techniques for multi-objective optimization (MOO). To capture this renewed interest, this monograph presents recent research in MOO techniques and applications in chemical engineering. Following a brief introduction and review of MOO applications in chemical engineering since 2000, the book presents selected MOO techniques and many chemical engineering applications in detail. In this second edition, several chapters from the first edition have been updated, one chapter is completely revised and three new chapters have been added. One of the new chapters describes three MS Excel programs useful for MOO of application problems. All the chapters will be of interest to researchers in MOO and/or chemical engineering. Several exercises are included at the end of many chapters, for use by both practicing engineers and students.
Gas Sweetening and Processing Field Manual Springer Nature
Gas Sweetening and Processing Field ManualGulf Professional Publishing
Multi-Objective Optimization CRC Press
Corrosion in Amine Treating Units, Second Edition presents a fully updated resource with a broadened focus that includes corrosion in not only refining operations, but also in oil and gas production. New sections have been added on inhibition, corrosion modeling and metallic coatings. More detailed descriptions of the degradation mechanisms and Integrity Operating Windows (IOW) are now included, as is more in-depth information on guidelines for what sections and locations are most vulnerable to corrosion and how to control corrosion in amine units e.g., using corrosion Loop descriptions and providing indicative integrity operating windows for operation to achieve a suitable life expectance. Provides new insights on the degradation mechanisms occurring in amine treating units and the locations within the unit where they occur Discusses how to mitigate and control corrosion in amine

units Provides guidance for setting up corrosion control documents and inspection and maintenance plans for amine treating units

Fortran Programs for Chemical Process Design, Analysis, and Simulation Gas Sweetening and Processing Field Manual This book gives engineers the fundamental theories, equations, and computer programs (including source codes) that provide a ready way to analyze and solve a wide range of process engineering problems.

Fundamentals and Applications Elsevier 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

Surface Production Operations: Vol 2: Design of Gas-Handling Systems and Facilities Lulu.com

The proposed book will be divided into three parts. The chapters in Part I provide an overview of certain aspect of process retrofitting. The focus of Part II is on computational techniques for solving process retrofit problems. Finally, Part III addresses retrofit applications from diverse process industries. Some chapters in the book are contributed by practitioners whereas others are from academia. Hence, the book includes both new developments from research and also practical considerations. Many chapters include examples with realistic data. All these feature make the book useful to industrial engineers, researchers and students.

Handbook of Natural Gas Transmission and Processing World Scientific

28th European Symposium on Computer Aided Process Engineering, Volume 43 contains the papers presented at the 28th European Society of Computer-Aided Process Engineering (ESCAPE) event held in Graz, Austria June 10-13 , 2018. It is a valuable resource for chemical engineers, chemical process engineers, researchers in industry and academia, students, and consultants for chemical industries. Presents findings and discussions from the 28th European Society of Computer-Aided Process Engineering (ESCAPE) event

Reactor and Process Design in Sustainable Energy Technology Cambridge University Press

Annotation Natural gas is at the forefront of today's energy needs. This book walks you through the equipment and processes used in gas-handling operations, including conditioning and processing, to help you effectively design and manage your gas production facility.

Petroleum and Gas Field Processing CRC Press

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.

Gas Separation Membranes CRC Press

Carbon membranes have great advantages of strong mechanical strength and high chemical stabilities, as well as high separation performance to reach the industrial attractive region. Further improvement on membrane performance can potentially offset the relatively high production cost compared to polymeric membranes. However, there are still some challenges related to fabrication of asymmetric carbon membranes, the controlling of structure and pore-size and module up-scaling for commercial application. The aim of this book is to provide the fundamentals on carbon membrane materials for the young researchers and engineers to develop frontier membrane materials for energy efficient separation process. This book describes the status and perspectives of both self-supported and supported carbon membranes from fundamentals to applications. The key steps on the development of high performance carbon membranes including precursor selection, tuning carbon membrane structure and regeneration are discussed. In the end, different potential applications both in gas and liquids separation are well described, and the future directions for carbon membrane development were pointed out. To this end, membrane science and engineering are set to play crucial roles as enabling technologies to provide energy efficient and cost-effective future solutions for energy and environment related processes. Based on this approach the research projects which are trying to find attractive carbon materials in our days are many. The published papers, per year, in the topic of carbon membranes, especially for biogas upgrading, natural gas sweetening and hydrogen purification, are numerous with very high impact. However, only few are the books which include relevant to the topic of carbon membrane technology. This book offers the condensed and interdisciplinary knowledge on carbon membranes, and provides the opportunity to the scientists who are working in the field of carbon membrane technology for gas and liquid separations to present, share, and discuss their contributions within the membrane community.

Technology and Engineering Design World Scientific

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.

Special Report of the Intergovernmental Panel on Climate Change CRC Press

This book covers different aspects of gas injection, from the classic pressure maintenance operation to enhanced oil

recovery (EOR), underground gas storage (UGS), and carbon capture and storage (CCS). The authors detail the unique characteristics and specific criteria of each application, including: material balance equations phase behaviour reservoir engineering well design operating aspects surface facilities environmental issues Examples, data, and simulation codes are provided to enable the reader to gain an in-depth understanding of these applications. Fundamentals and Practical Aspects of Gas Injection will be of use to practising engineers in the fields of reservoir engineering, and enhanced oil recovery. It will also be of interest to researchers, academics, and graduate students working in the field of petroleum engineering.

28TH EUROPEAN SYMPOSIUM ON COMPUTER AIDED PROCESS ENGINEERING John Wiley & Sons

This work contains the proceedings of the Distillation and Absorption conference, which happens every 5 years. This collection of 100 contributions spanning 23 countries showcase the newest and best distillation and absorption technologies which cover a broad range of fundamental and applied aspects of the technology. To address these aspects, the contributions have been put into seven themes: modelling and simulation (steady-state, dynamic and CFD); energy efficiency and sustainability; equipment design and operation; integrated, hybrid and novel processes; process troubleshooting and handling operational problems; control and operation; and basic data.

Corrosion in Amine Treating Units Springer

A unique, well-documented, and forward-thinking work, the second edition of Handbook of Natural Gas Transmission and Processing continues to present a thoroughly updated, authoritative, and comprehensive description of all major aspects of natural gas transmission and processing. It provides an ideal platform for engineers, technologists, and operations personnel working in the natural gas industry to get a better understanding of any special requirements for optimal design and operations of natural gas transmission pipelines and processing plants. First book of its kind that covers all aspects of natural gas transmission and processing Provides pivotal updates on the latest technologies, which have not been addressed in-depth in any existing books Offers practical advice for design and operation based on sound engineering principles and established techniques Examines ways to select the best processing route for optimal design of gas-processing plants Contains new discussions on process modeling, control, and optimization in gas processing industry

Oil and Gas Production Handbook: An Introduction to Oil and Gas Production CRC Press

This two-volume set CCIS 751 and CCIS 752 constitutes the proceedings of the 17th Asia Simulation Conference, AsiaSim 2017, held in Malacca, Malaysia, in August/September 2017. The 124 revised full papers presented in this two-volume set were carefully reviewed and selected from 267 submissions. The papers contained in these proceedings address challenging issues in modeling and simulation in various fields such as embedded systems; symbiotic simulation; agent-based simulation; parallel and distributed simulation; high performance computing; biomedical engineering; big data; energy, society and economics; medical processes; simulation language and software; visualization; virtual reality; modeling and Simulation for IoT; machine learning; as well as the fundamentals and applications of computing.

Gas Capture Processes Gulf Professional Publishing

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

Carbon Membrane Technology MDPI

Reactor Process Design in Sustainable Energy Technology compiles and explains current developments in reactor and process design in sustainable energy technologies, including optimization and scale-up methodologies and numerical methods. Sustainable energy technologies that require more efficient means of converting and utilizing energy can help provide for burgeoning global energy demand while reducing anthropogenic carbon dioxide emissions associated with energy production. The book, contributed by an international team of academic and industry experts in the field, brings numerous reactor design cases to readers based on their valuable experience from lab R&D scale to industry levels. It is the first to emphasize reactor engineering in sustainable energy technology discussing design. It provides comprehensive tools and information to help engineers and energy professionals learn, design, and specify chemical reactors and processes confidently. Emphasis on reactor engineering in sustainable energy technology Up-to-date overview of the latest reaction engineering techniques in sustainable energy topics Expert accounts of reactor types, processing, and optimization Figures and tables designed to comprehensively present concepts and procedures Hundreds of citations drawing on many most recent and previously published works on the subject

Government Patent Policy Elsevier

This book introduces the recent technologies introduced for gases capture including CO2, CO, SO2, H2S, NOx, and H2. Various processes and theories for gas capture and removal are presented. The book provides a useful source of information for engineers and specialists, as well as for undergraduate and postgraduate students in the fields of environmental and chemical science and engineering.

Surface Production Operations: Vol 2: Design of Gas-Handling Systems and Facilities Elsevier

Natural Gas: A Basic Handbook, Second Edition provides the reader with a quick and accessible introduction to a fuel source/industry that is transforming the energy sector. Written at an introductory level, but still appropriate for engineers and other technical readers, this book provides an overview of natural gas as a fuel source, including its origins, properties and composition. Discussions include the production of natural gas from traditional and unconventional sources, the downstream aspects of the natural gas

industry. including processing, storage, and transportation, and environmental issues and emission controls strategies. This book presents an ideal resource on the topic for engineers new to natural gas, for advisors and consultants in the natural gas industry, and for technical readers interested in learning more about this clean burning fuel source and how it is shaping the energy industry. Updated to include newer sources like shale gas Includes new discussions on natural gas hydrates and flow assurance Covers environmental issues Contain expanded coverage of liquefied natural gas (LNG)

Multi-objective Optimization: Techniques And Applications In Chemical Engineering (Second Edition) World Scientific

Equipment and process trouble-shooting techniques.

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