
Acid Gas Enrichment Flow Sheet Selection Protreat

4th International Symposium on High-Temperature Metallurgical Processing
Reservoir Formation Conditions and Enrichment Mechanisms of Shale Oil and Gas
Fuel Abstracts
Removing Acid Gas by Agitated Absorption
Hydrocarbon Processing & Petroleum Refiner
Surface Operations in Petroleum Production, I
Natural Gas Processing
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Kirk-Othmer Concise Encyclopedia of Chemical Technology, 2 Volume Set
Biojet Fuel in Aviation Applications
Handbook of Natural Gas Transmission and Processing
Energy Research Abstracts
Fundamentals of Natural Gas Processing, Third Edition
Environmental Technologies to Treat Sulfur Pollution
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Absorption-Based Post-Combustion Capture of Carbon Dioxide
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4th International Symposium on High-Temperature Metallurgical Processing Elsevier

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Reservoir Formation Conditions and Enrichment Mechanisms of Shale Oil and Gas John Wiley & Sons

This is the first part of a two-volume work which comes at a time when oil producers are taking a close look at the economy of oilfield operation and redesign of production technology to improve ultimate recovery. The very high cost, and risk, of the search for new oilfields demands the re-evaluation of production technology and reservoir engineering to improve the production characteristics of existing oilfields. It is the aim of this work that it will be instrumental in the improvement of the global enhancement of oil production and ultimate recovery. It is the outcome of extensive collaboration between experts in petroleum who have devoted their time to the lucid expression of the knowledge that they have acquired through experience in the evaluation and solution of field problems, and development of economic field processes. Oil production companies have been generous in their cooperation through assistance and encouragement to the authors and permission to publish data, designs and photographs. Together, the two books provide a detailed and comprehensive coverage of the subject. The physical and chemical properties of the fluids encountered by engineers in the field are clearly described. The properties, methods of separation, measurement, and transportation of these fluids

(gases, condensate liquids derived from natural gas, crude oils and oilfield waters) are dealt with. Following a presentation of the fluids and their process technology, a series of chapters give a thorough discussion of every type of surface equipment that is encountered in the myriad aspects of oilfield operations, ranging from waterflooding to new enhanced oil recovery techniques. Included are all methods for pumping, water control, production logging and corrosion control. The coverage also extends to: well completion and work-over operations, methods for design and operation of underground gas storage, and a review of offshore technology. *Surface Operations in Petroleum Production* is therefore a comprehensive reference which will be invaluable for field production managers and engineers; as well as being an ideal text on production technology to complement the study of reservoir engineering.

Fuel Abstracts Springer Nature

Environmental Technologies to Treat Sulfur Pollution: Principles and Engineering provides a definitive and detailed discussion of state-of-the-art environmental technologies to treat pollution by sulfurous compounds of wastewater, off-gases, solid waste, soils and sediments. Special attention is given to novel bioremediation techniques that have been developed over the last 10 years. Information density is unique owing to the many figures and graphs (150), tables (over 80) and over 1500 cited literature references. A detailed subject index helps the reader to find their way through the different technological applications, making it the perfect reference work for professionals and consultants dealing with sulfur-related environmental (bio)-technologies. Contents Part I - The sulfur cycle Part II - Technologies to Desulfurise Resources Part III - Treatment of Waters Polluted by Sulfurous Compounds Part IV - Treatment of Gases Polluted by Sulfurous Compounds Part V - Treatment of Soils and Sediments Polluted by Sulfurous Compounds Part VI - Other Applications of Sulfur Cycle: Bioconversions in Environmental Engineering Part VII - Problems Related to Sulfur Cycle: Bioconversions *Removing Acid Gas by Agitated Absorption* Butterworth-Heinemann

By some measure the most widely produced chemical in the

world today, sulfuric acid has an extraordinary range of modern uses, including phosphate fertilizer production, explosives, glue, wood preservative and lead-acid batteries. An exceptionally corrosive and dangerous acid, production of sulfuric acid requires stringent adherence to environmental regulatory guidance within cost-efficient standards of production. This work provides an experience-based review of how sulfuric acid plants work, how they should be designed and how they should be operated for maximum sulfur capture and minimum environmental impact. Using a combination of practical experience and deep physical analysis, Davenport and King review sulfur manufacturing in the contemporary world where regulatory guidance is becoming ever tighter (and where new processes are being required to meet them), and where water consumption and energy considerations are being brought to bear on sulfuric acid plant operations. This 2e will examine in particular newly developed acid-making processes and new methods of minimizing unwanted sulfur emissions. The target readers are recently graduated science and engineering students who are entering the chemical industry and experienced professionals within chemical plant design companies, chemical plant production companies, sulfuric acid recycling companies and sulfuric acid users. They will use the book to design, control, optimize and operate sulfuric acid plants around the world. Unique mathematical analysis of sulfuric acid manufacturing processes, providing a sound basis for optimizing sulfuric acid manufacturing processes Analysis of recently developed sulfuric acid manufacturing techniques suggests advantages and disadvantages of the new processes from the energy and environmental points of view Analysis of tail gas sulfur capture processes indicates the best way to combine sulfuric acid making and tailgas sulfur-capture processes from the energy and environmental points of view Draws on industrial connections of the authors through years of hands-on experience in sulfuric acid manufacture

Hydrocarbon Processing & Petroleum Refiner Elsevier

Originally published in 1983, this book presents both the technical and political information necessary to evaluate the emerging threat to world security posed by recent advances in uranium

enrichment technology. Uranium enrichment has played a relatively quiet but important role in the history of efforts by a number of nations to acquire nuclear weapons and by a number of others to prevent the proliferation of nuclear weapons. For many years the uranium enrichment industry was dominated by a single method, gaseous diffusion, which was technically complex, extremely capital-intensive, and highly inefficient in its use of energy. As long as this remained true, only the richest and most technically advanced nations could afford to pursue the enrichment route to weapon acquisition. But during the 1970s this situation changed dramatically. Several new and far more accessible enrichment techniques were developed, stimulated largely by the anticipation of a rapidly growing demand for enrichment services by the world-wide nuclear power industry. This proliferation of new techniques, coupled with the subsequent contraction of the commercial market for enriched uranium, has created a situation in which uranium enrichment technology might well become the most important contributor to further nuclear weapon proliferation. Some of the issues addressed in this book are: A technical analysis of the most important enrichment techniques in a form that is relevant to analysis of proliferation risks; A detailed projection of the world demand for uranium enrichment services; A summary and critique of present institutional non-proliferation arrangements in the world enrichment industry, and An identification of the states most likely to pursue the enrichment route to acquisition of nuclear weapons.

Surface Operations in Petroleum Production, 1 Elsevier
Liquefied natural gas (LNG) is a commercially attractive phase of the commodity that facilitates the efficient handling and transportation of natural gas around the world. The LNG industry, using technologies proven over decades of development, continues to expand its markets, diversify its supply chains and increase its share of the global natural gas trade. The Handbook of Liquefied Natural Gas is a timely book as the industry is currently developing new large sources of supply and the technologies have evolved in recent years to enable offshore infrastructure to develop and handle resources in more remote and harsher environments. It is the only book of its kind, covering the many aspects of the LNG supply chain from liquefaction to regasification by addressing the LNG industries' fundamentals

and markets, as well as detailed engineering and design principles. A unique, well-documented, and forward-thinking work, this reference book provides an ideal platform for scientists, engineers, and other professionals involved in the LNG industry to gain a better understanding of the key basic and advanced topics relevant to LNG projects in operation and/or in planning and development. Highlights the developments in the natural gas liquefaction industries and the challenges in meeting environmental regulations Provides guidelines in utilizing the full potential of LNG assets Offers advice on LNG plant design and operation based on proven practices and design experience Emphasizes technology selection and innovation with focus on a "fit-for-purpose design Updates code and regulation, safety, and security requirements for LNG applications

Natural Gas Processing Elsevier
Absorption-Based Post-Combustion Capture of Carbon Dioxide provides a comprehensive and authoritative review of the use of absorbents for post-combustion capture of carbon dioxide. As fossil fuel-based power generation technologies are likely to remain key in the future, at least in the short- and medium-term, carbon capture and storage will be a critical greenhouse gas reduction technique. Post-combustion capture involves the removal of carbon dioxide from flue gases after fuel combustion, meaning that carbon dioxide can then be compressed and cooled to form a safely transportable liquid that can be stored underground. Provides researchers in academia and industry with an authoritative overview of the amine-based methods for carbon dioxide capture from flue gases and related processes Editors and contributors are well known experts in the field Presents the first book on this specific topic

Applied Vision John Wiley & Sons
Maximize efficiency and minimize pollution: the breakthrough technology of high temperature air combustion (HiTAC) holds the potential to overcome the limitations of conventional combustion and allow engineers to finally meet this long-standing imperative. Research has shown that HiTAC technology can provide simultaneous reduction of CO₂ and nitric
Power Plant Engineering 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

Iron Trade Review John Wiley & Sons
A thesaurus for use by the Energy Research and Development Administration, allowing consistent cataloging and storage of information.

Kirk-Othmer Concise Encyclopedia of Chemical Technology, 2 Volume Set Newnes
Surveys the selection, design, and operation of most of the industrially important separation processes. Discusses the underlying principles on which the processes are based, and provides illustrative examples of the use of the processes in a modern context. Features thorough treatment of newer separation processes based on membranes, adsorption, chromatography, ion exchange, and chemical complexation. Includes a review of historically important separation processes such as distillation, absorption, extraction, leaching, and crystallization and considers these techniques in light of recent developments affecting them.

Biojet Fuel in Aviation Applications CRC Press
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 **Handbook of Natural Gas Transmission and Processing** CRC Press

Hydrometallurgy of Rare Earths: Extraction and Separation provides the basic knowledge for rare earth extraction and separation, including flow sheet selection criteria and related technology. The book includes the latest research findings on all rare earth separation processes, methods of controlling operation costs, and strategies that help lower wastewater and waste solid discharge. It discusses many real process parameters and actual situations in rare earth separation plants, also examining the basic principles, technologies, process parameters and advances and achievements in the area of rare earth extraction and separation. In addition, the book covers extraction separation theory as developed by Professor Guanxian Xu and Professor Chunhua Yan and the creative use of a computational simulation program to replace the bench scale and pilot plant tests and directly design rare earth extraction separation processes. Outlines the theory of solvent extraction and separation of rare earths (REs) Provides the necessary tools for a REs separation plant design Includes a unique simulation program for the calculation of all process parameters Includes Chinese nomenclature that is useful for identifying the various processes, also comparing it to the global literature

Energy Research Abstracts Gulf Professional Publishing This is an easily-accessible two-volume encyclopedia summarizing all the articles in the main volumes Kirk-Othmer Encyclopedia of Chemical Technology, Fifth Edition organized alphabetically. Written by prominent scholars from industry, academia, and research institutions, the Encyclopedia presents a wide scope of articles on chemical substances, properties, manufacturing, and uses; on industrial processes, unit operations in chemical engineering; and on fundamentals and scientific subjects related to the field.

Fundamentals of Natural Gas Processing, Third Edition Routledge Biojet fuels have the potential to make an important contribution towards decarbonising the aviation sector. Biojet Fuel in Aviation

Applications: Production, Usage and Impact of Biofuels covers all aspects of this sustainable aviation fuel including aviation biofuel public policies, production technologies, physico-chemical properties, combustion performances, techno-economics of sustainable fuel production, sustainability and energywater-food (EWF) nexus. This must-have book also charts the current state of the industry by discussing the relevant industry players who are currently producing alternative aviation fuels and flight tests, while also providing a glimpse of the future of the industry. This comprehensive book is written for undergraduate students, postgraduate students, researchers, engineers and policy makers wanting to build up knowledge in the specific area of biojet fuel or the broader fields of sustainable energy and aeronautics. Reviews major aviation and biojet fuel policies, legislations, initiatives and roadmaps around the world Features existing and emerging biojet fuel production pathways from various feedstocks Highlights the key properties of biojet fuels that ensures inter-operability with conventional jet aviation fuel Discusses the economic aspects of the biojet fuel industry and the barriers preventing its commercialisation Examines the sustainability of biojet fuel from a life cycle assessment, energy balance and EWF nexus point of views

Environmental Technologies to Treat Sulfur Pollution Frontiers Media SA

The book provides an integrated energy/exergy analysis method to identify the energy utilization issues and systematically propose the cost-effective energy-saving and CO₂ mitigation/capture solution. There is a strong market needs on energy-saving and greenhouse gas (GHG) reduction. CO₂ mitigation/capture will achieve economic benefit of fuel, power, and carbon tax saving as well as environmental GHG reduction. The book is a professional book for energy-saving and GHG gas mitigation technology in oil & gas, oil refining, and chemical industry. It is an integrated technical book that combines energy utilization theory and practical method, including: thermodynamic analysis for unit operation and process units; energy and exergy calculation for various process streams and utilities; three-link energy/exergy analysis model; energy/exergy balance of equipment, process units, and entire plant; approach and technology of energy saving; optimization of pipeline and equipment; pinch energy-saving technology and its application;

CO₂ capture and utilization with 8 case studies incorporated for all different scenarios; key energy-saving technologies such gas turbine, FCCU regeneration CO combustion and energy recovery, flue gas turbine system optimization, low-grade heat recovery and utilization. The book is intended for engineers and professional personnel who are working in process engineering, EPC companies, chemical and petrochemical plants, refineries, oil & gas production facilities, power generation plant. It can also be a professional reference or textbook for undergraduate or graduate-level university students and teaching personnel of chemical, energy, and process engineering faculties of universities.

EPA-600/2 Woodhead Publishing

This book reviews and characterises promising single-compound solvents, solvent blends and advanced solvent systems suitable for CO₂ capture applications using gas-liquid absorption. Focusing on energy efficient solvents with minimal adverse environmental impact, the contributions included analyse the major technological advantages, as well as research and development challenges of promising solvents and solvent systems in various sustainable CO₂ capture applications. It provides a valuable source of information for undergraduate and postgraduate students, as well as for chemical engineers and energy specialists.

Absorption-Based Post-Combustion Capture of Carbon Dioxide CRC Press

Written by an internationally-recognized team of natural gas industry experts, the fourth edition of Handbook of Natural Gas Transmission and Processing is a unique, well-researched, and comprehensive work on the design and operation aspects of natural gas transmission and processing. Six new chapters have been added to include detailed discussion of the thermodynamic and energy efficiency of relevant processes, and recent developments in treating super-rich gas, high CO₂ content gas, and high nitrogen content gas with other contaminants. The new material describes technologies for processing today's unconventional gases, providing a fresh approach in solving today's gas processing challenges including greenhouse gas emissions. The updated edition is an excellent platform for gas processors and educators to understand the basic principles and innovative designs necessary to meet today's environmental and

sustainability requirement while delivering acceptable project economics. Covers all technical and operational aspects of natural gas transmission and processing. Provides pivotal updates on the latest technologies, applications, and solutions. Helps to understand today's natural gas resources, and the best gas processing technologies. Offers design optimization and advice on the design and operation of gas plants.

Handbook of Liquefied Natural Gas IWA Publishing

Advances in Gas Processing: Proceedings of the 2nd Annual Gas Processing Symposium 11-14 January, 2010, Doha, Qatar, reviews the state of knowledge in gas processing. The contributions are organized around five main themes: (i) environmental sustainability; (ii) natural gas processing technologies; (iii) energy efficiency in operations; (iv) design and safety; and (v) operational excellence. The papers on environmental sustainability cover topics such as the biogasification of waste monoethanolamine; the role of LNG in a carbon constrained world; and sustainable water management. The papers on natural gas processing technologies include the removal of acid gases from natural gas streams via membrane

technology and selective control of Fischer-Tropsch synthesis hydrocarbons product distribution. The papers on energy efficiency in operations cover lifted turbulent jet flame in a cross-flow; novel hybrid biomass and coal processes; and the adoption of plug-in hybrid electric vehicles (PHEVs). The papers on design and safety include studies on the optimal design and operation of a GTL process and efficient design, operating, and control strategies for LNG plants. The papers on operational excellence deal with topics such as chemicals in gas processing; the monitoring and optimization of hydrocarbon separation equipment; and the inhibition of gas hydrate formation. * Provides a state-of-the-art review of gas processing technologies * Covers design, operating tools, and methodologies * Includes case studies and practical applications

Uranium Enrichment and Nuclear Weapon Proliferation Gulf Professional Publishing

Environmental problems in coastal ecosystems can sometimes be attributed to excess nutrients flowing from upstream watersheds into estuarine settings. This nutrient over-enrichment can result in

toxic algal blooms, shellfish poisoning, coral reef destruction, and other harmful outcomes. All U.S. coasts show signs of nutrient over-enrichment, and scientists predict worsening problems in the years ahead. *Clean Coastal Waters* explains technical aspects of nutrient over-enrichment and proposes both immediate local action by coastal managers and a longer-term national strategy incorporating policy design, classification of affected sites, law and regulation, coordination, and communication. Highlighting the Gulf of Mexico's "Dead Zone," the Pfiesteria outbreak in a tributary of Chesapeake Bay, and other cases, the book explains how nutrients work in the environment, why nitrogen is important, how enrichment turns into over-enrichment, and why some environments are especially susceptible. Economic as well as ecological impacts are examined. In addressing abatement strategies, the committee discusses the importance of monitoring sites, developing useful models of over-enrichment, and setting water quality goals. The book also reviews voluntary programs, mandatory controls, tax incentives, and other policy options for reducing the flow of nutrients from agricultural operations and other sources.

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