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Industrial & Mining Standard
Environmental Technologies to Treat Sulfur Pollution
Natural Gas Processing
Handbook of Natural Gas Transmission and Processing
Thorium Fuel Cycle
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30th European Symposium on Computer Aided Chemical Engineering
Fundamentals of Natural Gas Processing, Third Edition
Energy Saving and Carbon Reduction
Proceedings, Annual Convention
Chemical Engineering and Mining Review
Paraffins
Plasma and High Frequency Processes for Obtaining and Processing Materials in the Nuclear Fuel Cycle
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4th International Symposium on High-Temperature Metallurgical Processing

CLINTON BRENDEN

ADVANCED TECHNOLOGY BITS PERFORMANCE SPEAKS FOR ITSELF Springer
In the last decade, global metallurgical industries have experienced fast and prosperous growth. High temperature metallurgical technology is the backbone to support the technical, environmental, and economical needs for the growth. This symposium provides a stage to introduce the advancements and developments of new high temperature metallurgical technologies and their applications to the areas of processing of minerals, extraction of metals, preparation of refractory and ceramic materials, sintering and synthesis of fine particles, treatment and recycling of slag and wastes, and saving of energy and protection of environment.
Office of Air Programs Publication 30th European Symposium on Computer Aided Chemical Engineering
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.
Proceedings of the 2nd Annual Gas Processing Symposium Elsevier
30th European Symposium on Computer Aided Chemical EngineeringElsevier
Reactor Fuel Processing Elsevier
This book focuses on the assessment of different coal gasification technologies for the utilization of Russian coals with analyses of economically feasible process chains for preparation of marketable products from high-ash coals. The work presented is important in view of the general competitiveness that marks the future of coal in the world. As the cheapest form of fuel (in comparable terms) coal will undoubtedly be in demand resources in the world. The book consists of parts which include an overview about the major coal characteristics, detailed discussion of fundamental aspects of gasification

technologies and gasifiers, an introduction into annex concepts, an overview about different technologies of syngas utilization, technical and economic assessment of several coal-to-liquid and coal-to-chemicals routes, and feasibility demonstration for selected process chains. This book is addressed to the management and engineers of Russian coal companies and scientific staff of Russian research institutions working in the field of coal utilization.

Fourth Joint Meeting MMIJ-AIME 1980, Tokyo: Technical session C, D, and E Noyes Data Corporation/Noyes Publications

Paraffins: Chemistry and Technology deals primarily with fundamentals of those methods and processes for the manufacture and chemical treatment of the paraffinic hydrocarbons. The present book, the first edition of which was published by the Akademie-Verlag GmbH, Berlin, in 1956, and an unchanged reprint of which of the first edition was necessary in 1959, has been revised, in 1962, for translation into English. The book begins with a discussion of the production and manufacture of the paraffinic hydrocarbons. Separate chapters then cover the catalytic hydrogenation of carbon monoxide by means of the Fischer-Tropsch synthesis; the chlorination, sulfochlorination, and oxidation the paraffins along with the corresponding products; and the direct nitration of the paraffinic hydrocarbons. Subsequent chapters deal with the sulfoxidation and other substitution reactions of the paraffinic hydrocarbons and isomerization of the paraffinic hydrocarbons. The book is directed primarily to the chemist involved in research and development. It will also give the advanced student a picture of the many-sided possibilities of the use of the paraffinic hydrocarbons, which were long regarded as extraordinarily unreactive.

Air Pollution Abstracts Wiley-Blackwell

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

Official Gazette of the United States Patent and Trademark Office Wiley-Interscience

This work contains a library of information for the chemical industry. The 4th edition has undergone a complete revision, with the inclusion of many new subjects which reflect the growth in chemical technology through

the 1990s.

Industrial & Mining Standard Nova Publishers

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.

Environmental Technologies to Treat Sulfur Pollution CRC Press

30th European Symposium on Computer Aided Chemical Engineering, Volume 47 contains the papers presented at the 30th European Symposium of Computer Aided Process Engineering (ESCAPE) event held in Milan, Italy, May 24-27, 2020. 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 30th European Symposium of Computer Aided Process Engineering (ESCAPE) event Offers a valuable resource for chemical engineers, chemical process engineers, researchers in industry and academia, students, and consultants for chemical industries

Elsevier

Advances in Gas Processing: Proceedings of the 2nd Annual Gas Processing Symposium 11-1 4 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

Natural Gas Processing John Wiley & Sons

Plasma & High Frequency Processes for Obtaining & Processing Materials in the Nuclear Fuel Cycle

Handbook of Natural Gas Transmission and Processing IWA Publishing

This is a collection of the papers presented at the 1st International Conference on Process Intensification for the Chemical Industry, organized and sponsored by the BHR Group Limited, and held in Antwerp, Belgium on 6-8 December 1995.

Thorium Fuel Cycle Elsevier

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

Kirk-Othmer Concise Encyclopedia of Chemical Technology, 2 Volume Set John Wiley & Sons

The emergence and refinement of techniques in molecular biology has changed our perceptions of medicine, agriculture and environmental management. Scientific breakthroughs in gene expression, protein engineering and cell fusion are being translated by a strengthening biotechnology industry into revolutionary new products and services. Many a student has been enticed by the promise of biotechnology and the excitement of being near the cutting edge of scientific advancement. However, graduates trained in molecular biology and cell manipulation soon realise that these techniques are only part of the picture. Reaping the full benefits of biotechnology requires manufacturing capability involving the large-scale processing of biological material. Increasingly, biotechnologists are being employed by companies to work in co-operation with chemical

engineers to achieve pragmatic commercial goals. For many years aspects of biochemistry and molecular genetics have been included in chemical engineering curricula, yet there has been little attempt until recently to teach aspects of engineering applicable to process design to biotechnologists. This textbook is the first to present the principles of bioprocess engineering in a way that is accessible to biological scientists. Other texts on bioprocess engineering currently available assume that the reader already has engineering training. On the other hand, chemical engineering textbooks do not consider examples from bioprocessing, and are written almost exclusively with the petroleum and chemical industries in mind. This publication explains process analysis from an engineering point of view, but refers exclusively to the treatment of biological systems. Over 170 problems and worked examples encompass a wide range of applications, including recombinant cells, plant and animal cell cultures, immobilised catalysts as well as traditional fermentation systems. * * First book to present the principles of bioprocess engineering in a way that is accessible to biological scientists * Explains process analysis from an engineering point of view, but uses worked examples relating to biological systems * Comprehensive, single-authored * 170 problems and worked examples encompass a wide range of applications, involving recombinant plant and animal cell cultures, immobilized catalysts, and traditional fermentation systems * 13 chapters, organized according to engineering sub-disciplines, are groupled in four sections - Introduction, Material and Energy Balances, Physical Processes, and Reactions and Reactors * Each chapter includes a set of problems and exercises for the student, key references, and a list of suggestions for further reading * Includes useful appendices, detailing conversion factors, physical and chemical property data, steam tables, mathematical rules, and a list of symbols used * Suitable for course adoption - follows closely curricula used on most bioprocessing and process biotechnology courses at senior undergraduate and graduate levels.

Syngas Production: Status and Potential for Implementation in Russian Industry Springer Nature

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

Energy Progress Elsevier

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.

Petroleum Abstracts Elsevier

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.

Energy Research Abstracts Gulf Professional Publishing

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Nuclear Science Abstracts 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

The chemical industry during the nineteenth century Gulf Professional Publishing

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