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Focus

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- Grid stability

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Industrial High Pressure Applications Rudolf Eggers, 2012-07-11 Industrial high pressure processes open the door to many reactions that are not possible under normal conditions. These are to be found in such different areas as polymerization, catalytic reactions, separations, oil and gas recovery, food processing, biocatalysis, and more. The most famous high pressure process is the so-called Haber-Bosch process, used for fertilizers and which was awarded a Nobel prize. Following an introduction on historical development, the current state and future trends, this timely and comprehensive publication goes on to describe different industrial processes, including methanol and other catalytic syntheses, polymerization, and renewable energy processes, before covering safety and equipment issues. With its excellent choice of industrial contributions, this handbook offers high quality information not found elsewhere, making it invaluable reading for a broad and interdisciplinary audience.

Heavy Duty Rotating Equipment Axel Sperber, 2024-07-16 The selection and procurement of compressors and steam turbines for use in the chemical and process industry is highly interdisciplinary. The success of a project is determined by a number of areas of knowledge, from mechanical, electrical, materials, and control engineering, knowledge of thermodynamics, fluid mechanics, and strength theory, through to project management and quality control. In this guide, the individual steps are presented along the chronological chain, together with the basic decisions and pitfalls that need to be taken into account. The work is limited to custom-built machines that are specially optimized for a specific process and to gases and vapours as conveying media. It is presented from the operator's point of view, with a focus on high system availability, safety, and favorable conditions for maintenance and servicing.

Zero Emissions Power Cycles Evgeny Yantovsky, J. Gorski, Mykola Shokotov, 2009-04-23 Focusing on fossil-fueled nonpolluting power generation systems, Zero Emissions Power Cycles presents alternative solutions to the severe emissions problems of power plants. Along with a description of new thermodynamic cycles and the results of computational analyses, this volume provides modern analytical tools and equations to evaluate exergy.

Gas and Steam Turbine Power Plants S. Can Gülen, 2023-10-19 Explore sustainable electric power generation technology from first principles to cutting-edge systems in this in-depth resource. Including energy storage, carbon capture, hydrogen, and hybrid systems, the detailed coverage includes performance estimation, operability concerns, economic trade-off, and other intricate analyses supported by implementable formulae, real-world data, and tried and tested quantitative and qualitative estimating techniques. Starting from basic concepts and key equipment, this book builds to precise analysis of balance of plant operation through data and methods gained from decades of hands-on design, testing, operation, and trouble-shooting. Gain the knowledge you need to operate in conditions beyond standard settings and environment with thorough descriptions of off-design operations. Novel technologies become accessible with stripped-back descriptions and physics-based calculations. This book is an ideal companion for engineers in the gas turbine and electric power field.

Gas Turbines for Electric Power Generation S. Can Gülen, 2019-02-14 Everything you

wanted to know about industrial gas turbines for electric power generation in one source with hard to find hands on technical information *Gas Turbine Combined Cycle Power Plants* S. Can Gülen,2019-12-06 This book covers the design analysis and optimization of the cleanest most efficient fossil fuel fired electric power generation technology at present and in the foreseeable future The book contains a wealth of first principles based calculation methods comprising key formulae charts rules of thumb and other tools developed by the author over the course of 25 years spent in the power generation industry It is focused exclusively on actual power plant systems and actual field and or rating data providing a comprehensive picture of the gas turbine combined cycle technology from performance and cost perspectives Material presented in this book is applicable for research and development studies in academia and government industry laboratories as well as practical day to day problems encountered in the industry including OEMs consulting engineers and plant operators *Handbook of Water and Used Water Purification* Josef Lahnsteiner,2024-03-25 The book addresses the entire water cycle The focus is on new technologies processes especially in high performance biological treatment energy recovery water recycling and reuse Recommendations with regard to the right technologies processes for specific situations are provided and a wide range of case studies especially in emerging markets In addition the most modern water terminology with more positive connotations is used This is especially important in the field of direct and indirect potable reuse DPR and IPR respectively *Desalination* Jane Kucera,2019-04-16 This all new revised edition of a modern classic is the most comprehensive and up to date coverage of the green process of desalination in industrial and municipal applications covering all of the processes and equipment necessary to design operate and troubleshoot desalination systems This is becoming increasingly more important for not only our world s industries but our world s populations as pure water becomes more and more scarce Blue is the new green This is an all new revised edition of a modern classic on one of the most important subjects in engineering Water Featuring a total revision of the initial volume this is the most comprehensive and up to date coverage of the process of desalination in industrial and municipal applications a technology that is becoming increasingly more important as more and more companies choose to go green This book covers all of the processes and equipment necessary to design operate and troubleshoot desalination systems from the fundamental principles of desalination technology and membranes to the much more advanced engineering principles necessary for designing a desalination system Earlier chapters cover the basic principles the economics of desalination basic terms and definitions and essential equipment The book then goes into the thermal processes involved in desalination such as various methods of evaporation distillation recompression and multistage flash Following that is an exhaustive discussion of the membrane processes involved in desalination such as reverse osmosis forward osmosis and electrodialysis Finally the book concludes with a chapter on the future of these technologies and their place in industry and how they can be of use to society This book is a must have for anyone working in water for engineers technicians scientists working in research and development and operators It is also

useful as a textbook for graduate classes studying industrial water applications Improvement in Mercury Retention in Thermal Power Plant, Dual-loop Flue-gas Desulphurization Systems Silvio Farr, 2023-09-19 Quecksilber und seine Verbindungen sind giftige Schadstoffe deren Emission aufgrund ihrer Verbreitung und daraus folgender Bioakkumulation ein globales Problem darstellen Zweikreis Rauchgasentschwefelungsanlagen REA können wasserlösliche Schadstoffe aus Rauchgasen entfernen und somit wesentlich zur Minderung von Quecksilberemissionen thermischer Kraftwerke beitragen Obwohl die Technologie bekannt ist und den Stand der Technik im Grobmaßstab darstellt ist das Verhalten von Quecksilber in Zweikreis Rauchgasentschwefelungsanlagen bisher nur unzureichend in der Literatur beschrieben Um die Abscheidung und Rückhaltung von Quecksilberverbindungen im Rauchgas zu verbessern wurden Untersuchungen an einer Zweikreis REA im Labor und im technischen Maßstab durchgeführt In dieser Arbeit wird das Verständnis vom Quecksilberverhalten in der Zweikreis REA erweitert Die Kenntnis der Vorgänge in der Zweikreis Rauchgasentschwefelung ermöglicht eine gezielte Prozessführung um die Umweltverträglichkeit zu verbessern Industrial Coal Gasification Technologies Covering Baseline and High-Ash Coal Martin Gräbner, 2014-11-24 The ongoing discussion about reaching the peak oil point maximal delivery rate with conventional methods emphasizes a fundamental change of the frame conditions of oil based basic products The alternative with the largest potential is the use of coal Coal gasification is the production of coal gas a mixture of mainly hydrogen and carbon monoxide from coal adding agents like steam water and oxygen which can be used in a number of industrial processes e.g. hydroformulation and Fischer Tropsch process Many different kinds of coal do naturally occur and due to shrinking natural resources there has been a substantial gain of interest in poor ash rich coal Beside the quality of coal there is a number of other parameters influencing the efficiency of coal gasification such as temperature pressure and reactor type Although several books dealing with the subject of gasification have recently been published few are strictly focussed on coal as feedstock This monograph provides the reader with the necessary chemical background on coal gasification Several types of coal baseline coal and ash rich coal are compared systematically pointing out the technological efforts achieved so far to overcome this challenge Using a new innovative order scheme to evaluate the gasification process at a glance the ternary diagram the complex network of chemistry engineering and economic needs can be overviewed in a highly efficient way This book is a must have for Chemical and Process Engineers Engineering Students as well as Scientists in the Chemical Industry Laser-based Investigation of Gas and Solid Fuel Combustion under Oxy-Fuel Atmosphere Sebastian Bürkle, 2019-03-04 Oxy fuel combustion has the potential to reduce the atmospheric CO₂ emissions of fossil fuel power plants by burning gaseous or solid fuels under an atmosphere of carbon dioxide and oxygen The combustion under oxy fuel operating conditions however is accompanied by major changes in the combustion behavior The underlying chemical and physical processes are complex and highly coupled which impedes investigations and modeling Since tactile and most of the optical measurement techniques fail under the sensitive and simultaneously harsh environments of oxy fuel combustion an

optical in situ measurement system based on tunable diode laser absorption spectroscopy is developed in this work This system allows to investigate the thermochemical state of combustion gases with respect to the quantitative concentrations of multiple combustion relevant gases and the gas temperature In combination with a newly developed and applied measurement strategy the system even allows for a measurement of the gas residence time distribution To improve the measurement accuracy multiple absorption line parameters are experimentally determined The measurement system is applied to three oxy fuel combustion systems First the thermochemical state of the laminar non premixed methane combustion under oxy fuel atmosphere is studied The turbulent premixed combustion of the same fuel under air and two oxy fuel atmospheres is studied in a 20 kWth swirled combustor Measurements of the residence time distribution of fluids in the combustion chamber provide insights into mixing and transport properties of the flow The thermochemical state reveals insights into the reaction progress and flow mixing Co firing of three different solid fuels in an assisting gas flame is investigated for a combined thermal power up to 40 kWth Here the char burnout of the particles is investigated The thermochemical state of the combustion of pure torrefied biomass under air and oxy fuel combustion atmosphere is investigated in a 60 kWth close to application facility and compared to equilibrium calculations

Water - Energy Interactions in Water Reuse Valentina Lazarova, Kwang-Ho Choo, Peter Cornel, 2012-04-30 The focus of Water Energy Interactions in Water Reuse is to collect original contributions and some relevant publications from recent conference proceedings in order to provide state of art information on the use of energy in wastewater treatment and reuse systems Special focus is given to innovative technologies such as membrane bioreactors high pressure membrane filtration systems and novel water reuse processes A comparison of energy consumption in water reuse systems and desalination will be also provided Water Energy Interactions in Water Reuse covers the use of energy in conventional and advanced wastewater treatment for various water reuse applications including carbon footprint energy efficiency energy self sufficient facilities and novel technologies such as microbial fuel cells and biogas valorisation It is of real value to water utility managers policy makers for water and wastewater treatment water resources planners and researchers and students in environmental engineering and science Editors Valentina Lazarova Suez Environnement France Kwang Ho Choo Kyungpook National University Korea Peter Cornel Technical University of Darmstadt Germany

Structural Integrity Cases in Mechanical and Civil Engineering Shahrum Abdullah, Salvinder Singh Karam Singh, Noorsuhada Md Nor, 2022-01-24 This book covers most of the damage mechanism in the scope of mechanical engineering and civil engineering The failure pattern of various materials and structures is mainly discussed The sub topics covers fatigue damage fatigue crack initiation and propagation life prediction techniques computational fracture mechanics dynamic fracture damage mechanics and assessment non destructive test NDT concrete failure assessment failure on soil structures structural durability and reliability structural health monitoring construction damage recovery and any relevant topics related to failure analysis

Handbook on fly ash

in concrete Dietmar Lutze,Wolfgang vom Berg,2013-03-20 When used as an addition and binder component fly ash has become an indispensable construction material for many concrete applications The conditions produced in power stations when firing fine pulverized coal result in the formation of a reactive flour fine pozzolanic mineral material from the accompanying rock in the coal Owing to its specific characteristics it has a positive impact on the properties of fresh and hardened concrete and facilitates cost effective production of high grade durable concretes The authors of this handbook have combined the latest discoveries from the field of research with practical experience of the use and effects of fly ash in concrete This handbook provides the necessary information and makes interesting suggestions for selective use of fly ash in concrete

Energy Efficiency in Manufacturing Systems Sebastian Thiede,2012-04-23 Energy consumption is of great interest to manufacturing companies Beyond considering individual processes and machines the perspective on process chains and factories as a whole holds major potentials for energy efficiency improvements To exploit these potentials dynamic interactions of different processes as well as auxiliary equipment e g compressed air generation need to be taken into account In addition planning and controlling manufacturing systems require balancing technical economic and environmental objectives Therefore an innovative and comprehensive methodology with a generic energy flow oriented manufacturing simulation environment as a core element is developed and embedded into a step by step application cycle The concept is applied in its entirety to a wide range of case studies such as aluminium die casting weaving mills and printed circuit board assembly in order to demonstrate the broad applicability and the benefits that can be achieved

Who Owns Whom ,2008 *Current Trends and Future Developments on (Bio-) Membranes* Angelo Basile,Kamran Ghasemzadeh,2023-09-14 Current Trends and Future Developments on Bio Membranes Recent Achievements for Ion Exchange Membranes focuses on introducing and analyzing ion exchange membranes performance and overviewing recent achievements in the structural development of ion exchange membranes in various applications Hence this book is a key reference text for R D managers in who are interested in the development of ion exchange membrane technologies as well as academic researchers and postgraduate students working in the wider area of strategic treatments separation and purification processes Reviews the ion exchange membranes including fundamentals and processes Provides thorough coverage of transport aspects and fundamentals of various ion exchange membranes systems such as fuel cells electrodialysis and more Describes the two main categories of ion exchange membranes inorganic and organic Covers numerous new applications of ion exchange membranes

Milestones in Water Reuse Valentina Lazarova,Takashi Asano,Akica Bahri,John Anderson,2013-01-15 Milestones in Water Reuse The Best Success Stories illustrates the benefits of water reuse in integrated water resources management and its role for water cycle management climate change adaptation and water in the cities of the future Selected case studies are used to illustrate the different types of water reuse i e agricultural irrigation golf course and landscape irrigation urban and industrial uses environmental enhancement as well as indirect and direct

potable reuse The various aspects related to water reuse are covered including treatment technologies water quality economics public acceptance benefits keys for success and main constraints These international case studies highlight the best practices for the implementation of water reuse and provide the perspective for the integration of water recycling projects in the future both for megacities and rural areas Milestones in Water Reuse The Best Success Stories demonstrates that planned water reuse is a cost competitive and energy saving option to increase water availability and reliability This book provides policy makers and regulators with a good understanding of water reuse and helps them to consider recycled water as safe and how it can be used It is intended to be read by all people in the water sector and shows how water reuse is safe economically viable environmentally friendly and can provide high social benefits Editors Valentina Lazarova Suez Environnement France Takashi Asano University of California at Davis USA Akica Bahri African Development Bank Tunisia John Anderson Afton Water Australia

Emissionshandel Michael Lucht, Gorden Spangardt, 2005-12-06 Ab 2005 wird der Emissionshandel europaweit als Klimaschutzinstrument eingesetzt Durch den Handel mit limitierten Berechtigungen zum CO₂ Ausstoß wird die globale politische Idee dem Klimawandel entgegenzuwirken mit marktwirtschaftlichen Methoden umgesetzt Die Reduktion der Treibhausgasemissionen durch technische Maßnahmen soll somit dort stattfinden wo diese ökonomisch am vorteilhaftesten ist Die Einführung des Emissionshandels ist jedoch durch eine Vielzahl komplexer miteinander verknüpfter ökonomischer rechtlicher und technischer Fragen gekennzeichnet welche in diesem Buch von Experten erörtert werden Dazu gehören das tatsächliche Ausmaß des Klimawandels Interessenkonflikte bei der Gesetzgebung und Allokation der Emissionsrechte Konsequenzen für strategische Entscheidungen betroffener Unternehmen Techniken der CO₂ Reduktion und die Vision einer emissionsfreien Energiewirtschaft

Windenergie Lorenz Jarass, Gustav M. Obermair, Wilfried Voigt, 2009-07-29 Die Windenergie leistet in Deutschland schon heute einen großen Beitrag zum Klimaschutz und zur Unabhängigkeit von fossilen und nuklearen Brennstoffen Bis 2030 sollen onshore und offshore mehr als 50 GW Windkraftwerke installiert sein aber nur noch 20 GW Kohlekraftwerke und keine Kernkraftwerke Das Buch analysiert die systemtechnischen und ökonomischen Aspekte dieses Totalumbaus des elektrischen Energiesystems unter Berücksichtigung des deutschen und des europäischen Energierechts Hauptthemen hierzu sind Optimierung der Windenergieanlagen und ihrer Netzanbindung Ausbau der Stromnetze mit neuen umweltschonenden Techniken Ausgleich der großen Fluktuationen des Windenergieangebots durch andere regenerative oder CO₂ arme Energieträger vom Markt bewirkte Verdrängung kohlebefeuerter Großkraftwerke Mit neu entwickelten Optimierungsmethoden bietet das Buch Grundlagenwissen für Forschung und Lehre und versorgt Entscheidungsträger in Energiewirtschaft Politik und Verwaltung mit fundiertem Wissen

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