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Acid Precipitation Power Generation from Solid Fuels Flue Gas Desulfurization and Industrial Minerals Fossil Energy Update Desulphurisation 3 Off-Gas Purification Proceedings Ullmann's Encyclopedia of Industrial Chemistry Paper ASME Technical Papers Managing Coal Combustion Residues in Mines Sustainable Concrete Construction Coal Combustion Byproducts and Environmental Issues Properties of Fresh and Hardened Concrete Containing Supplementary Cementitious Materials Handbook of Extractive Metallurgy Mechanical Engineering Transactions Fuel Strategies Indo German Power Plant Seminar Coal Abstracts Environmentally Oriented Modernization of Power Boilers Proceedings ... Annual Pittsburgh Coal Conference Cements Research Progress Handbook of Clean Energy Systems, 6 Volume Set Host Bibliographic Record for Boundwith Item Barcode 30112033097202 and Others British Reports, Translations and Theses Bulk Solids Handling Proceedings of the ... International Joint Power Generation Conference Conversion of Large Scale Wastes into Value-added Products Process and Chemical Engineering Applications for Coal-use Residues Urja Advanced Mineralogy Developments in FGD Enclair '86, Energy and Cleaner Air Electrical & Electronics Abstracts Bauchemie Proceedings of the Third Symposium Proceedings ... Annual Meeting Proceedings of the ... Industrial Waste Conference Annual Report ... on Efficient Uses of Energy, Fossil Sources of Primary Energy, New Sources of Energy

Contains 4,101 references on FGD [Flue Gas Desulfurization] ... primarily from 1982 through June 1993. Complements the "Flue Gas Desulfurization and Denitrification" bibliography published by the U.S. Dept. of Energy in Jan. 1985. References were located on the Energy, Science and Technology, Pollution Abstracts, and Environmental Bibliography databases. Primarily covers FGD and the use of industrial minerals in the desulfurization process or in by-product utilization and disposal. Emphasizes post-combustion removal of sulfur dioxide through processes such as in-duct injection and wet and dry scrubbing. This work presents proceedings from a conference held in Sheffield in March 1993. Contents include: the reduction of sulphur emission; a review of the Drax FGD projects; absorption of sulphur in flue gases by seawater; management of FGD residues - disposal or utilization. Coal Combustion Byproducts and Environmental Issues addresses the major implications and critical issues surrounding coal combustion products and their impact upon the environment. It provides essential information for scientists conducting research on coal and coal combustion products, but also serves as a valuable reference for a wide variety of researchers and other professionals in the energy industry and in the fields of public health, engineering, and environmental sciences. The ultimate goal of this volume is to benefit both our economy and our environment as humanity enters the second half of the fossil fuel era. When doing in the off-gas purification business you will pretty soon register that you do not act in an isolated box. You have to make yourself familiar with the interplay of your emission problem and the environment, and you have to apply a broad view of the subject. We can hardly make a forecast on your first steps in this business, except that we want you to succeed. Therefore, we want to offer engineers and graduate students the basic tools for discussing air pollution problems and for deducing strategies for process and equipment design in off-gas purification, covering the whole span from the basics to dedusting, absorption, adsorption and redox processes. The didactic concept of the work is to attract students with a 'learning by doing' strategy. We discuss the problems, the solver strategies and the solvers. The problem solver proposals address a multitude of pollution control technologies. The work is a compact off-gas purification guide for practitioners and students by presenting basics as well as numerous applications with many examples and problems with solutions. Das Buch ist nicht nur für den Studienanfänger eine wertvolle Hilfe, den Anforderungen eines Regelstudienganges Bauingenieurwesen oder Architektur zu entsprechen, es dient auch dem Baupraktiker als nützliches Nachschlagewerk. Neben den Grundlagen vermittelt der Autor spezielle chemische Kenntnisse zu Baustoffen und baurelevanten Prozessen verständlich und methodisch ausgewogen. Dabei orientiert sich die exemplarisch vorgenommene Auswahl von Verbindungen, Stoffen, Reaktionen und Prozessen an deren Praxisrelevanz für das Bauwesen unter Berücksichtigung moderner ökologischer Gesichtspunkte. Das Werk basiert auf langjährigen Lehrerfahrungen in der Hochschulausbildung von Bauingenieurstudenten und hebt sich deutlich von einer nur chemisch kommentierten Baustofflehre ab. Es kann sowohl als vorlesungsbegleitendes Lehrmaterial als auch im Selbststudium und im Rahmen einer Weiterbildung eingesetzt werden. The Handbook of Clean Energy Systems brings together an international team of experts to present a comprehensive overview of the latest research, developments and practical applications throughout all areas of clean energy systems. Consolidating information which is currently scattered across a wide variety of literature sources, the handbook covers a broad range of topics in this interdisciplinary research field including both fossil and renewable energy systems. The development of intelligent energy systems for efficient energy processes and mitigation technologies for the reduction of environmental pollutants is explored in depth, and environmental, social and economic impacts are also addressed. Topics covered include: Volume 1 - Renewable Energy: Biomass resources and biofuel production; Bioenergy Utilization; Solar Energy; Wind Energy; Geothermal Energy; Tidal Energy. Volume 2 - Clean Energy Conversion Technologies: Steam/Vapor Power Generation; Gas Turbines Power Generation; Reciprocating Engines; Fuel Cells; Cogeneration and Polygeneration. Volume 3 - Mitigation Technologies: Carbon Capture; Negative Emissions System; Carbon Transportation; Carbon Storage; Emission Mitigation Technologies; Efficiency Improvements and Waste Management; Waste to Energy. Volume 4 - Intelligent Energy Systems: Future Electricity Markets; Diagnostic and Control of Energy Systems; New Electric Transmission Systems; Smart Grid and Modern Electrical Systems; Energy Efficiency of Municipal Energy Systems; Energy Efficiency of Industrial Energy Systems; Consumer Behaviors; Load Control and Management; Electric Car and Hybrid Car; Energy Efficiency Improvement. Volume 5 - Energy Storage: Thermal Energy Storage; Chemical Storage; Mechanical Storage; Electrochemical Storage; Integrated Storage Systems. Volume 6 - Sustainability of Energy Systems: Sustainability Indicators, Evaluation Criteria, and Reporting; Regulation and Policy; Finance and Investment; Emission Trading; Modeling and Analysis of Energy Systems; Energy vs. Development; Low Carbon Economy; Energy Efficiencies and Emission Reduction. Key features: Comprising over 3,500 pages in 6 volumes, HCES presents a comprehensive overview of the latest research, developments and practical applications throughout all areas of clean energy systems, consolidating a wealth of information which is currently scattered across a wide variety of literature sources. In addition to renewable energy systems, HCES also covers processes for the efficient and clean conversion of traditional fuels such as coal, oil and gas, energy storage systems, mitigation technologies for the reduction of environmental pollutants, and the development of intelligent energy systems. Environmental, social and economic impacts of energy systems are also addressed in depth. Published in full colour throughout. Fully indexed with cross referencing within and between all six volumes. Edited by leading researchers from academia and industry who are internationally renowned and active in their respective fields. Published in print and online. The online version is a single publication (i.e. no updates), available for one-time purchase or through annual subscription. Environmentally oriented modernization of power boilers explains how to retrofit and upgrade power boilers in aging thermal and CHP plants, with emphasis on pulverized fuel boilers (PF). The work provides direct avenues to higher boiler efficiency, harmful emissions reduction, fuel grinding system modernization, fuel flexibility, boiler operation flexibilization, reduced corrosion, erosion, and fouling. It also explores how to integrate emission reduction systems into boiler operations. The work is planned for engineers and graduate students as well as for power plant management. For the latter, it helps find the best solution for the necessary modernization and functions as an aid in organizing tenders as well as in evaluating projects offered. Errata to published editions can be found here <https://modernpowerboilers.org/errata.html> Presents, in a clear and accessible way, the most important solutions related to boiler emissions reduction, including CO2 emissions Helps increase boiler efficiency through technical and operational upgrades Helps increase the usefulness of boilers by increasing fuel and operational flexibility Supports reduction of harmful phenomena, such as corrosion, erosion, and fouling Accompanied with a careful selection of realized modernizations, including pitfalls and best practice discussion Chapters are presented alongside hundreds of literature references for further study Burning coal in electric utility plants produces, in addition to power, residues that contain constituents which may be harmful to the environment. The management of large volumes of coal combustion residues (CCRs) is a challenge for utilities, because they must either place the CCRs in landfills, surface impoundments, or mines, or find alternative uses for the material. This study focuses on the placement of CCRs in active and abandoned coal mines. The committee believes that placement of CCRs in mines as part of the reclamation process may be a viable option for the disposal of this material as long as the placement is properly planned and carried out in a manner that avoids significant adverse environmental and health impacts. This report discusses a variety of steps that are involved in planning and managing the use of CCRs as minefills, including an integrated process of CCR characterization and site characterization, management and engineering design of placement activities, and design and implementation of monitoring to reduce the risk of contamination moving from the mine site to the ambient environment. Enforceable federal standards are needed for the disposal of CCRs in minefills to ensure that states have adequate, explicit authority and that they implement minimum safeguards. Extract all the metals information you need! A wealth of data on metals and their extraction is revealed in this comprehensive handbook. The aim of this book is to provide a clear description of how a particular metal is extracted industrially from different raw materials, and on what its important compounds are. The present work is a collection of 58 articles written by over 280 specialists. It supplies thousands of top-quality illustrations, diagrams and charts, and provides hand-picked references ensuring the most up-to-date coverage. A unique feature of this reference work is its structure. The system used here is according to an economic classification, which reflects mainly the uses, occurrence and economic value of metals. First, the ferrous metals, i.e., those used in the production of iron and steel, are outlined. Then, nonferrous metals are subdivided into primary, secondary, light, precious, refractory, scattered, radioactive, rare earth, ferroalloy metals, and, finally, the alkali and the alkaline earth metals are described. The handbook is an essential aid for the practising metallurgist. Mining engineers, mineralogists, chemical engineers, chemists and geologists will find it a comprehensive desk reference. It is of interest to engineers and scientists in industry seeking an exhaustive sourcebook, and it should be present in every library. Concern about the fate of waste products produced by a wide range of

industrial processes has led to the realization that they may have potential uses and, therefore, value. In an effort to develop more sustainable processes and reduce waste storage, the use of waste as a resource has been gaining attention worldwide. Consequently, there have been a large number of studies aimed at utilizing such wastes. Conversion of Large Scale Wastes into Value-added Products discusses various selected classes of large-scale waste and their current applications and potential future applications. This book provides a snapshot of a continually evolving field, which includes both well-established processes and a drive toward developing strategies for new applications of wastes. The first chapter provides a general introduction to the area of large-scale waste utilization, including drivers for waste recovery, and secondary processes and products for waste reuse. Subsequent chapters discuss applications and potential applications in specific classes of large-scale waste: Various types of waste generated from different metal processing operations Waste generated by coal combustion, a major source of power generation that produces enormous quantities of waste Waste electrical and electronic equipment, important for recycling finite resources and reducing health and environmental risks Food waste, a significant and diverse waste stream with economic and environmental impacts The final chapter presents a general conclusion to the broad subject of waste utilization, summarizing the topics and addressing future trends in waste research. This volume of Advanced Mineralogy encompasses six different areas having two features in common: they are related to one of the largest enterprises of the second half of this century; and represent the ultimate and final extension of the concept of mineral matter. - Understanding mineral matter in Space is one of the principal purposes of cosmic exploration. This includes the results of comparative planetology, lunar epopee, sophisticated meteorite studies (now more than 500 meteorite minerals), discovery of the interstellar mineral dust forming some 60 trillion of earth masses in the Galaxy, and terrestrial impact crater studies. It is possible now to speak of mineralogy of the Universum, and the mineralogical type of the states of matter in the Universe. Direct samples of mantle xenoliths and ultrahigh pressure-temperature experiments make it possible to consider the mineralogical composition of the Earth as a whole, including the upper and lower mantle and the Earth's core. Deep ocean drilling programs, a scientific fleet of hundreds of vessels and several submersibles have brought about great discoveries in the geology, metalogeny, and mineralogy of the ocean floor the largest part of the Earth's surface, in particular revealing new genetic, crystallochemical, and ore types of mineral formation. This volume represents the current knowledge on the effect of SCMs (slag, fly ash, silica fume, limestone powder, metakaolin, natural pozzolans, rice husk ash, special SCMs, ternary blends) on the properties of fresh and hardened concrete (e.g. early strength development, workability, shrinkage) and curing requirements. Other topics treated in the book are postblending vs preblending, implications of SCM variability, interaction between SCM and commonly used admixtures (e.g. superplasticizers, air entrainers). Power Generation from Solid Fuels introduces the different technologies to produce heat and power from solid fossil (hard coal, brown coal) and renewable (biomass, waste) fuels, such as combustion and gasification, steam power plants and combined cycles etc. The book discusses technologies with regard to their efficiency, emissions, operational behavior, residues and costs. Besides proven state of the art processes, the focus is on the potential of new technologies currently under development or demonstration. The main motivation of the book is to explain the technical possibilities for reducing CO2 emissions from solid fuels. The strategies which are treated are: more efficient power and heat generation technologies, processes for the utilisation of renewable solid fuels, such as biomass and waste, and technologies for carbon capture and storage. Power Generation from Solid Fuels provides, both to academia and industry, a concise treatment of industrial combustion of all types of solid, hopefully inspiring the next generation of engineers and scientists.

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