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Soil and Groundwater Remediation Technologies Springer Science & Business Media

The book details sources of thermal energy, methods of capture, and applications. It describes the basics of thermal energy, including measuring thermal energy, laws of thermodynamics that govern its use and transformation, modes of thermal energy, conventional processes, devices and materials, and the methods by which it is transferred. It covers 8 sources of thermal energy: combustion, fusion (solar) fission (nuclear), geothermal, microwave, plasma, waste heat, and thermal energy storage. In each case, the methods of production and capture and its uses are described in detail. It also discusses novel processes and devices used to improve transfer and transformation processes.

Constructed Wetlands for Industrial Wastewater Treatment DIANE Publishing

This book focuses on doing businesses successfully with China oil, gas and chemicals companies with real business cases on business management and contract negotiations all under one theme. Drawing on the author's extensive experiences and knowledge of the China oil, gas and chemicals industries, the book presents a comprehensive and practical guide to the China oil industry structure and major Chinese oil companies. It analyses China's oil, gas and chemicals markets and its growth into the largest oil consumption market in the world. It also examines energy security concerns and mitigation strategies to diversify crude import sources. The book also analyses the key domestic and international players in China including the largest state, multinational and national oil companies. It looks at the largest China oil, gas and chemical companies and analyses their profile, business, strategies, leaders with relevant case studies. It then examines successful engagement, negotiation and management with the China giants. The book illustrates with business case studies on successfully negotiating and managing business relations to foster trust and promote cooperation, as well as, the risks and rewards. Business leaders, universities, business schools and government agencies will appreciate the book with its in-depth knowledge and analysis of the China oil, gas and chemical industries together with relevant business cases.

Proceedings of the First International Soda Ash Conference National Academies Press

The word sustainability shares its root with sustenance. In the context of modern society, sustenance is inextricably linked to the use of energy. Fossil Energy provides an authoritative reference on all aspects of this key resource, which currently represents nearly 85% of global energy consumption. Gathering 16 peer-reviewed entries from the Encyclopedia of Sustainability Science and Technology, the chapters provide comprehensive, yet concise coverage of fundamentals and current areas of research. Written by recognized authorities in the field, this volume represents an essential resource for scientists and engineers working on the development of energy resources, fossil or alternative, and reflects the essential role of energy supplies in supporting a sustainable future.

Draft Plan to Study the Potential Impacts of Hydraulic Fracturing on Drinking Water Resources Elsevier

This book explores advanced recycling and optimization techniques, offering a blend of practical case studies and theoretical models that push the boundaries of traditional water management practices. Each chapter covers various aspects of sustainable water management, from the reuse of wastewater in residential complexes to the design of eco-industrial parks. By integrating environmental engineering, economics, and urban planning, the book addresses the pressing need for sustainable water solutions, presenting cutting-edge optimization models and economic analyses crucial for professionals and decision-makers. The incorporation of dynamic and strategic planning in the context of environmental constraints and uncertainties makes it an essential resource for navigating the complexities of modern water systems. Providing innovative strategies for a sustainable future, this book stands as a pivotal work in the field of water resource management.

Mine Water Treatment – Active and Passive Methods CRC Press

This book offers various soil and water treatment technologies due to increasing global soil and water pollution. In many countries, the management of contaminated land has matured, and it is developing in many others. Topics covered include chemical and ecological risk assessment of contaminated sites; phytomanagement of contaminants; arsenic removal; selection and technology diffusion; technologies and socio-environmental management; post-remediation long-term management; soil and groundwater laws and regulations; and trace element regulation limits in soil. Future prospects of soil and groundwater remediation are critically discussed in this book. Hence, readers will learn to understand the future prospects of soil and groundwater contaminants and remediation measures. Key Features: Discusses conventional and novel aspects of soil and groundwater remediation technologies Includes new monitoring/sensing technologies for soil and groundwater pollution Features a case study of remediation of contaminated sites in the old, industrial, Ruhr area in Germany Highlights soil washing, soil flushing, and stabilization/solidification Presents information on emerging contaminants that exhibit new challenges This book is designed for undergraduate and graduate courses and can be used as a handbook for researchers, policy makers, and local governmental institutes. **Soil and Groundwater Remediation Technologies: A Practical Guide** is written by a team of leading global experts in the field.

Inorganic Pollutants in Wastewater John Wiley & Sons

Petroleum engineers continue to need cost saving and environmentally sustainable products and methods for today's hydraulic fracturing operations.

Hydraulic Fracturing Chemicals and Fluid Technology, Second Edition, continues to deliver an easy-to-use manual of fluid formulations to meet specific job needs. Enhanced with more environmental aspects, this reference helps engineers and fluid specialists select and use the appropriate chemicals for any hydraulic fracturing job. New information concerning nanotechnology applications such as wellbore sealant and proppants are added

to enhance operations in a sustainable manner while saving on production costs. Other updates include low recovery of fracturing water in shale, surfactants for waterless hydraulic fracturing, and expanded produced water treatment. Rounding out with updated references and patents for easy reference, **Hydraulic Fracturing Chemicals and Fluid Technology, Second Edition**, gives engineers a critical guide on selecting better products to boost productions while strengthening environmental enhancement and consideration. - Gain insight with new information surrounding environmental contamination and produced water treatment methods - Save on production costs with new nanoparticle-enhanced fluids and applications - Eliminate guesswork with systematic approach to fluid technology organized by project need

Shale The Capitol Net Inc

Composition and Properties of Drilling and Completion Fluids

Integrated and Hybrid Process Technology for Water and Wastewater Treatment Routledge

A comprehensive depository of all information relating to the scientific and technological aspects of Shale Gas and Alternative Energy Conveniently arranged by energy type including Shale Gas, Wind, Geothermal, Solar, and Hydropower Perfect first-stop reference for any scientist, engineer, or student looking for practical and applied energy information Emphasizes practical applications of existing technologies, from design and maintenance, to operating and troubleshooting of energy systems and equipment Features concise yet complete entries, making it easy for users to find the required information quickly, without the need to search through long articles

Flowback and Produced Waters CRC Press

Photocatalysis is important in fighting environmental pollution, such as pharmaceutical effluents, dyes, pesticides and endocrine disruptors. It is also used for the production of clean energy, e.g. by way of hydrogen production from watersplitting, or CO2 conversion into fuels. Further, photocatalytic N2 fixation is promising for achieving sustainable ammonia synthesis. The book discusses new materials and reaction engineering techniques, such as heterojunction formations, composites, ion exchangers, photocatalytic membranes, etc. Keywords: Photocatalysis, Pollutant Degradation and Mineralization, Pharmaceutical Effluents, Dyes, Pesticides, Endocrine Disruptors, Water Detoxification, Photocatalytic Hydrogen Production, CO2 Conversion into Fuels, N2 Fixation, Degradation of Organic Molecules, Heavy Metal Removal from Water, Photocatalytic Membranes, Carbon Nitride for Photocatalytic Applications, Carbon Nanotubes, Nanohybrids, Composite Ion Exchangers, Perovskites-based Nano Heterojunctions.

Hydraulic Fracturing in Unconventional Reservoirs Gulf Professional Publishing

This edition examines the production and use of natural gas, natural gas imports and exports, storage, and other pertinent topics.

Minerals Yearbook, 2008, V. 1, Metals and Minerals John Wiley & Sons

An in-depth report on the potential risks and rewards of hydraulic fracturing for shale gas detailing the latest reports, studies, facts and figures from around the world. Objective and non-partisan analysis of the arguments from all sides means readers can make up their own minds about the potential risks and purported rewards of the shale gas industry. Simple and concise Fracking: Risks & Rewards cuts through the legal, scientific, political and economic jargon to provide a comprehensive guide to the entire fracking controversy.

Composition and Properties of Drilling and Completion Fluids Materials Research Forum LLC

This book, 'Inorganic Pollutants in Wastewater: Methods of Analysis, Removal and Treatment' extensively investigates the most recent improvements in the area of inorganic pollutants analysis, removal and treatment of wastewater by utilizing different materials such as natural polymers, husks, graphene and carbon nanotube composites, fruit cortex etc. It covers photocatalysis, adsorption, desalination and electrochemical technologies used for the analysis and treatment of inorganic pollutants. Waste Water Treatment, Inorganic Pollutants, Natural Polymers, Husks, Graphene and Carbon Nanotube Composites, Fruit Cortex, Photocatalysis, Adsorption, Desalination, Electrochemical Technologies

Wastewater and Shale Formation Development ScholarlyEditions

Produced water is "water from underground formations that is brought to the surface during oil and gas production" is the greatest volume byproduct associated with oil and gas production. It is managed by some combination of underground injection, treatment and subsequent use, treatment and discharge, or evaporation, subject to compliance with state and federal regulations. Management of these waters is challenging not only for industry and regulators, but also for landowners and the public because of differences in the quality and quantity of produced water, varying infrastructure needs, costs, and environmental considerations associated with produced water disposal, storage, and transport. Unconventional oil and gas development involves technologies that combine horizontal drilling with the practice of hydraulic fracturing. Hydraulic fracturing is a controlled, high-pressure injection of fluid and proppant into a well to generate fractures in the rock formation containing the oil or gas. After the hydraulic fracture procedure is completed, the injected fluid is allowed to flow back into the well, leaving the proppant in the newly created fractures. As a result, a portion of the injected water returns to the surface and this water is called "flowback water" which initially may mix with the naturally occurring produced water from the formation. The chemistry and volume of water returning to the surface from unconventional oil and gas operations thus changes during the lifetime of the well due to the amount of fluid used in the initial stage of well development, the amount of water naturally occurring in the geologic formation, the original water and rock chemistry, the type of hydrocarbon being produced, and the way in which production is conducted. The volume and composition of flowback and produced waters vary with geography, time, and site-specific factors. A workshop was conducted by the National Academies of Sciences, Engineering, and Medicine to highlight the challenges and opportunities associated in managing produced water from unconventional hydrocarbon development, and particularly in the area of potential beneficial uses for these waters. This publication summarizes the presentations and discussions from the workshop.

Docket No. FD 35116, R.J. Corman Railroad Company/Pennsylvania Lines Inc., Construction and Operation of 20 Miles of Rail Line in Clearfield and Centre Counties eBook Partnership

Utilization of Natural Resources of Sodium Carbonate into the Next Century: Meeting in Rock Springs, Wyoming, June 10-12, 1997 Fracking Elsevier

Data are provided for more than 80 minerals and materials, along with a presentation of survey methods, summary statistics for domestic nonfuel minerals, and

trends in mining and quarrying in the metals and industrial minerals industry in the United States. Virtually all metallic and industrial mineral commodities important to the U.S. economy are discussed. Background information enables analysis of the data, and covers production, consumption, prices, foreign trade, a world review, and an overall outlook.

Handbook of Alternative Fuel Technologies Government Printing Office

This book presents recent research and advances in various solid – liquid separation technologies and some applications for treating produced water. It covers fundamental principles and the importance of produced water in major industrial sectors and compares solid – liquid separation technologies. In addition, this book Presents the results of research studies conducted to evaluate the performance of solid – liquid separation technologies Discusses a wide range of technologies, including membrane, filtration, crystallization, desalination, supercritical fluids, coagulation, and floatation Includes experimental, theoretical, modeling, and process design studies With its comprehensive coverage, this book is an essential reference for chemical researchers, scientists, and engineers in industry, academia, and professional laboratories. It is also an important resource for graduate and advanced undergraduate students studying solid – liquid separations.

Water-Based Chemicals and Technology for Drilling, Completion, and Workover Fluids CRC Press

Practical Solutions to Integrated Oil and Gas Reservoir Analysis: Geophysical and Geological Perspectives is a well-timed source of information addressing the growing integration of geophysical, geological, reservoir engineering, production, and petrophysical data in predicting and determining reservoir properties. These include reservoir extent and sand development away from the well bore, characterizations of undrilled prospects, and optimization planning for field development. As such, geoscientists must now learn the technology, processes, and challenges involved within their specific functions in order to complete day-to-day activities. A broad collection of real-life problems and challenging questions encountered by geoscientists in the exploration and development of oil and gas fields, the book treats subjects ranging from Basin Analysis, to identifying and mapping structures, stratigraphy, the distribution of fracture, and the identification of pore fluids. Looking at the well-to-seismic tie, time-to-depth conversion, AVO analysis, seismic inversion, rock physics, and pore pressure analysis/prediction, the text examines challenges encountered in these technical areas, and also includes solutions and techniques used to overcome those challenges. Presents a thorough understanding of the contributions and issues faced by the various disciplines that contribute towards characterizing a wide spectrum of reservoirs (Conventional, Shale Oil and Gas, as well as Carbonate reservoirs) Provides a much needed and integrated approach amongst disciplines including geology, geophysics, petrophysics, reservoir and drilling engineering Includes case studies on different reservoir settings from around the world including Western Canadian Sedimentary Basin, Gulf of Guinea, Gulf of Mexico, Milne point field in Alaska, North-Sea, San Jorge Basin, and Bossier and Haynesville Shales, and others to help illustrate key points Thermal Energy Gulf Professional Publishing

Tackling the issue of water and wastewater treatment nowadays requires novel approaches to ensure that sustainable development can be achieved.

Water and wastewater treatment should not be seen only as an end-of-pipe solution but instead the approach should be more holistic and lead to a more sustainable process. This requires the integration of various methods/processes to obtain the most optimized design. Integrated and Hybrid Process Technology for Water and Wastewater Treatment discusses the state-of-the-art development in integrated and hybrid treatment processes and their applications to the treatment of a vast variety of water and wastewater sources. The approaches taken in this book are categorized as (i) resources recovery and consumption, (ii) optimal performance, (iii) physical and environmental footprints, (iv) zero liquid discharge concept and are (v) regulation-driven. Through these categories, readers will see how such an approach could benefit the water and wastewater industry. Each chapter discusses challenges and prospects of an integrated treatment process in achieving sustainable development. This book serves as a platform to provide ideas and to bridge the gap between laboratory-scale research and practical industry application. - Includes comprehensive coverage on integrated and hybrid technology for water and wastewater treatment - Takes a new approach in looking at how water and wastewater treatment contributes to sustainable development - Provides future direction of research in sustainable water and wastewater treatment

Photocatalytic Nanomaterials for Environmental Applications DIANE Publishing

Oil and gas engineers today use three main factors in deciding drilling fluids: cost, performance, and environmental impact, making water-based products a much more attractive option. Water-Based Chemicals and Technology for Drilling, Completion, and Workover Fluids effectively delivers all the background and infrastructure needed for an oil and gas engineer to utilize more water-based products that benefit the whole spectrum of the well's life cycle. Helping to mitigate critical well issues such as formation damage, fluid loss control, and borehole repair, more operators demand to know the full selection of water-based products available to consistently keep a peak well performance. This must-have training guide provides the necessary coverage in the area, broken down by type and use, along with an extensive list of supportive materials such as a chemical index of structural formulas and helpful list of references for further reading. In addition to understanding the types, special additives, and chemical compatibilities of the products available, the reader will also learn proper waste disposal techniques, including management of produced water, a component mandatory to hydraulic fracturing operations. Concise and comprehensive, Water-Based Chemicals and Technology for Drilling, Completion, and Workover Fluids details all the necessary educational content and handy references to elevate your well's performance while lowering your environmental impact. - Understand the basics and functions on all water-based fluids for drilling, completion, cementing, and enhanced oil recovery operations - Get up to date with the growing need for water-based fluids in hydraulic fracturing operations including supportive materials such as an index of trade names, acronyms, and chemicals - Stay responsible and know the environmental aspects and current regulations, including disposal and discharge

Unconventional Gas Shales Materials Research Forum LLC

This book accompanies you on a journey that starts with the basics of mine water treatment and takes you further through correct sampling for planning to active and passive systems. In the respective chapters you will learn the most important techniques about the parameters to be measured (e.g. on-site parameters, flow rate), which methods are available to actively treat your mine water (e.g. high density sludge method, reverse osmosis, ion exchange) and which ones to perform passive treatment (e.g. constructed wetlands, vertical flow reactor, limestone channel). You will also get an insight into the use of mine water. Don ' t expect a cookbook – rather, it ' s an ingredients and utensils list to help you find the right recipe. For extended help on this, check out the more than 1000 references on all the techniques presented. I wrote this book for hydrogeologists, engineers, graduate students, government officials, miners, geocologists, chemical engineers – in the broadest sense: you. This book is a translation of an original German edition. The translation was done with the help of artificial intelligence (machine translation by the service DeepL.com). A subsequent human revision and a thorough copy editing and update by the author ensured that the contents are correctly represented.