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Palaeoecology of Africa and the Surrounding Islands Springer
This Addendum to the Third Edition of the Registries for Evaluating Patient Outcomes: A User ' s Guide presents new, emerging themes related to designing and conducting registries. First published in 2007, the User ' s Guide, with translations available in Chinese and Korean, serves as a reference for planning, developing, maintaining, and evaluating registries developed to collect data about patient outcomes. The second (2010) and third (2014) editions incorporated updates to existing topics and included new chapters on methodological and technological advances in registry science. This Addendum has five new chapters that address emerging topics in registries, including increasing the focus on patients in registries including engaging with patients throughout the design and conduct of registries, methodological considerations for using digital health technologies, designing patient-centric studies, and building registry networks. Discover Related products: Registries for Evaluating Patient Outcomes: A Users Guide Volume 1, Third Edition (ePub format) available from Apple iBookstore, Barnes and Noble.com (Nook eBookstore), Google Play eBookstore, Overdrive, EBSCOhost, ProQuest-- Please use ISBN: 978158487634338 to search for this title in these platforms. Registries for Evaluating Patient Outcomes: A Users Guide Volume 1 Third Edition (MOBI format) Registries for Evaluating Patient Outcomes: A Users Guide Volume 2 Third Edition (ePub eBook) available from Apple iBookstore, Barnes and Noble.com (Nook eBookstore), Google Play eBookstore, Overdrive, EBSCOhost, ProQuest-- Please use ISBN: 978158487634345 to search for this title in these platforms. Registries for Evaluating Patient Outcomes: A Users Guide Volume 2 Third edition (ePub format) TeamSTEPPS 2.0 Pocket Guide: Team Strategies & Tools to Enhance Performance and Patient Safety (Sold as print units in packages of 10)

Data-Driven Analytics for the Geological Storage of CO2 Springer Science & Business Media
The book provides the reader with a profound knowledge of basic principles, properties and preferred applications of diverse kinds of CO2 measurement. It shows the advantages, disadvantages and limitations of several methods and gives a comprehensive overview of both possible applications and corresponding boundary conditions. Applications reach from environmental monitoring to safety control to biotechnology and food control and finally to medicine.

Water Security in the Mediterranean Region CRC Press
These papers derive from a workshop on "Quaternary Sedimentary Records in Central Africa and their Palaeoenvironmental Interpretation", held at the 15th INQUA Congress. They mainly cover the Late Quaternary to Holocene climate and environmental history of today's rainforest regions.

Geochemical Characterization of Ground-water Flow in the Santa Fe Group Aquifer System, Middle Rio Grande Basin, New Mexico Utah Geological Survey
Teaches the application of Reactive Transport Modeling (RTM) for subsurface systems in order to expedite the understanding of the behavior of complex geological systems This book lays out the basic principles and approaches of Reactive Transport Modeling (RTM) for surface and subsurface environments, presenting specific workflows and applications. The techniques discussed are being increasingly commonly used in a wide range of research fields, and the information provided covers fundamental theory, practical issues in running reactive transport models, and how to apply techniques in specific areas. The need for RTM in engineered facilities, such as nuclear waste repositories or CO2 storage sites, is ever increasing, because the prediction of the future evolution of these systems has become a legal obligation. With increasing recognition of the power of these approaches, and their widening adoption, comes responsibility to ensure appropriate application of available tools. This book aims to provide the requisite understanding of key aspects of RTM, and in doing so help identify and thus avoid potential pitfalls. Reactive Transport Modeling covers: the application of RTM for CO2 sequestration and geothermal energy development; reservoir quality prediction; modeling diagenesis; modeling geochemical processes in oil & gas production; modeling gas hydrate production; reactive transport in fractured and porous media; reactive transport studies for nuclear waste disposal; reactive flow modeling in hydrothermal systems; and modeling biogeochemical processes. Key features include: A comprehensive reference for scientists and practitioners entering the area of reactive transport modeling (RTM) Presented by internationally known experts in the field Covers fundamental theory, practical issues in running reactive transport models, and hands-on examples for applying techniques in specific areas Teaches readers to appreciate the power of RTM and to stimulate usage and application Reactive Transport Modeling is written for graduate students and researchers in academia, government laboratories, and industry who are interested in applying reactive transport modeling to the topic of their research. The book will also appeal to geochemists, hydrogeologists, geophysicists, earth scientists, environmental engineers, and environmental chemists.

Controlling Global Warming CRC Press
This report (185 pages and 2 plates) presents new and compiled geologic, geophysical, hydrologic, and hydrochemical data to delineate the regional ground-water flow system in Curlew Valley. Decreased precipitation combined with increased agricultural pumping in the central part of Curlew Valley since the late 1960s caused a steady decline in discharge at the Locomotive Springs complex. The report includes a compiled geologic map of the Curlew Valley surface-drainage basin at 1:100,000 scale and new geologic and hydrochemical data.

The Web of Geological Sciences Edward Elgar Publishing
This book focuses on scientific and technological aspects of groundwater-resources assessment and surveillance. It describes relevant risks and investigates selected techniques for the monitoring and mitigation of the individuated threats to groundwater quality. The authors discuss the concepts of groundwater-resources protection and offer examples of both geogenic and anthropogenic degradation of groundwater quality, such as heavy metals from mining activities and natural water-rock interactions, as well as risk of contamination due to geological CO2 storage practices etc. The volume also covers non-invasive monitoring techniques and briefly addresses innovative sensor technologies for the online assessment of water quality. Furthermore, the role played by geochemical techniques, the potential of environmental isotopes and the support provided by physical modelling are highlighted. The chapters guide the reader through various viewpoints, according to the diverse disciplines involved, without aiming to be exhaustive, but instead picking representative topics for their relevance in the context of groundwater protection and control. This book will be of interest to advanced students, researchers, policy-makers and stakeholders at various levels.

User guide and indices to the initital inventory, substance name index User guide and indices to the ini tial inventory, substance name indexToxic Substances Control Act (TSCA) Chemical Substance Inventory: User guide and indices to the initial inventory : Substance name indexA user's guide for REDEQL.EPAUser guide and indices to the initital inventory, substance name indexClimate Change and Green Chemistry of CO2 Sequestration
Data-driven analytics is enjoying unprecedented popularity among oil and gas professionals. Many reservoir engineering problems associated with geological storage of CO2 require the development of numerical reservoir simulation models. This book is the first to examine the contribution of artificial intelligence and machine learning in data-driven analytics of fluid flow in porous environments, including saline aquifers and depleted gas and oil reservoirs. Drawing from actual case studies, this book demonstrates how smart proxy models can be developed for complex numerical reservoir simulation models. Smart proxy incorporates pattern recognition capabilities of artificial intelligence and machine learning to build smart models that learn the intricacies of physical, mechanical and chemical interactions using precise numerical simulations. This ground breaking technology makes it possible and practical to use high fidelity, complex numerical reservoir simulation models in the design, analysis and optimization of carbon storage in geological formations projects.
John Wiley & Sons
Volume 77 of Reviews in Mineralogy and Geochemistry focuses on important aspects of the geochemistry of geological CO2 sequestration. It is in large part an outgrowth of research conducted by members of the U.S. Department of Energy funded Energy Frontier Research Center (EFRC) known as the Center for Nanoscale Control of Geologic CO2 (NCGC). Eight out of the 15 chapters have been led by team members from the NCGC representing six of the eight partner institutions making up this center - Lawrence Berkeley National Laboratory (lead institution, D. DePaolo - PI), Oak Ridge National Laboratory, The Ohio State University, the University of California Davis, Pacific Northwest National Laboratory, and Washington University, St. Louis.

Monthly Catalog of United States Government Publications John Wiley & Sons
User guide and indices to the ini tial inventory, substance name indexToxic Substances Control Act (TSCA) Chemical Substance Inventory: User guide and indices to the initial inventory : Substance name indexA user's guide for REDEQL.EPAUser guide and indices to the initital inventory, substance name indexClimate Change and Green Chemistry of CO2 SequestrationSpringer Nature

Distribution, Movement, and Fate on Nitrate in the Surficial Aquifer Beneath Citrus Groves, Indian River, Martin, and St. Lucie Counties, Florida Springer
As is now generally accepted mankind’s burning of fossil fuels has resulted in the mass transfer of greenhouse gases to the atmosphere, a modification of the delicately-balanced global carbon cycle, and a measurable change in world-wide temperatures and climate. Although not the most powerful greenhouse gas, carbon dioxide (CO) drives climate 2 change due to the enormous volumes of this gas pumped into the atmosphere every day. Produced in almost equal parts by the transportation, industrial and energy-generating sectors, atmospheric CO concentrations have 2 increased by about 50% over the last 300 years, and according to some sources are predicted to increase by up to 200% over pre-industrial levels during the next 100 years. If we are to reverse this trend, in order to prevent significant environmental change in the future, action must be taken immediately. While reduced use of fossil fuels (through conservation, increased efficiency and expanded use of renewable energy sources) must be our ultimate goal, short to medium term solutions are needed which can make an impact today. Various types of CO storage techniques have been proposed to fill this 2 need, with the injection of this gas into deep geological reservoirs being one of the most promising. For example this approach has the potential to become a closed loop system, whereby underground energy resources are brought to surface, their energy extracted (via burning or hydrogen extraction), and the resulting by-products returned to the subsurface.

Energy Research Abstracts Springer Science & Business Media
"This volume covers many of the important advances in the geological sciences from 1963 to 2013. These advances include understanding

plate tectonics, exploration of the Moon and Mars, development of new computing and analytical technologies, understanding of the role of microbiology in geologic processes, and many others"--Provided by publisher.

Carbon Dioxide Sensing Walter de Gruyter GmbH & Co KG

The role of water in our communities, from local to regional and right up to global levels, poses a series of key questions about climate change, about the anthropogenic impact on the environment, and about all the interconnected actions and events that affect the availability and quality of the resource. All these questions share a common demand for more scientific knowledge and information. In this particular context the disciplinary boundaries are fading, and there is a growing need to create broader connections and wider collaborative interdisciplinary groups, aimed at building an integrated knowledge-base to serve not only stakeholders but also the whole of society. Only in this way can we hope to respond effectively to the challenges and changing dynamics of human-hydrologic systems. Following this concept, contributors from multiple disciplinary backgrounds, such as Law Studies, Hydrogeology, Monitoring and Information Technologies, Geophysics, Geochemistry, Environmental Sciences, Systems Engineering, Economics and Social Studies, joined forces and interacted in this workshop. The present book reports the proceedings of this three-day ARW (Advanced Research Workshop), and explores different aspects of the environmental security assessment process, focusing on the assessment, monitoring and management of water resources, and giving an overview of the related scientific knowledge.

Handbook of Input-Output Economics in Industrial Ecology CRC Press

This is the first book dedicated to the entire field of integrated chemical processes, covering process design, analysis, operation and control of these processes. Both the editors and authors are internationally recognized experts from different fields in industry and academia, and their contributions describe all aspects of intelligent integrations of chemical reactions and physical unit operations such as heat exchange, separational operations and mechanical unit operations. As a unique feature, the book also introduces new concepts for treating different integration concepts on a generalized basis. Of great value to a broad audience of researchers and engineers from industry and academia.

Emergency Response Guidebook DIANE Publishing

Over the past 20 years, the concept of storing or permanently storing carbon dioxide in geological media has gained increasing attention as part of the important technology option of carbon capture and storage within a portfolio of options aimed at reducing anthropogenic emissions of greenhouse gases to the earths atmosphere. This book is structured into eight parts, and, among other topics, provides an overview of the current status and challenges of the science, regional assessment studies of carbon dioxide geological sequestration potential, and a discussion of the economics and regulatory aspects of carbon dioxide sequestration.

User guide and indices to the ini tial inventory, substance name index Cambridge University Press

IPCC Report on sources, capture, transport, and storage of CO2, for researchers, policy-makers and engineers.

Large Space Structures & Systems in the Space Station Era Geological Society of America

World soils contain about 1500 gigatons of organic carbon. This large carbon reserve can increase atmospheric concentrations of CO2 by soil misuse or mismanagement, or it can reverse the 'greenhouse' effect by judicious land use and proper soil management. Soil Processes and the Carbon Cycle describes soil processes and their effects on the global carbon cycle while relating soil properties to soil quality and potential and actual carbon reserves in the soil. In addition, this book deals with modeling the carbon cycle in soil, and with methods of soil carbon determinations.

Reactive Transport Modeling AAPG

Does the identification number 60 indicate a toxic substance or a flammable solid, in the molten state at an elevated temperature? Does the identification number 1035 indicate ethane or butane? What is the difference between natural gas transmission pipelines and natural gas distribution pipelines? If you came upon an overturned truck on the highway that was leaking, would you be able to identify if it was hazardous and know what steps to take? Questions like these and more are answered in the Emergency Response Guidebook. Learn how to identify symbols for and vehicles carrying toxic, flammable, explosive, radioactive, or otherwise harmful substances and how to respond once an incident involving those substances has been identified. Always be prepared in situations that are unfamiliar and dangerous and know how to rectify them. Keeping this guide around at all times will ensure that, if you were to come upon a transportation situation involving hazardous substances or dangerous goods, you will be able to help keep others and yourself out of danger. With color-coded pages for quick and easy reference, this is the official manual used by first responders in the United States and Canada for transportation incidents involving dangerous goods or hazardous materials.

Geochemistry of Geologic CO2 Sequestration John Wiley & Sons

A comprehensive mathematical and computational modeling of CO2 Geosequestration and Compressed Air Energy StorageEnergy and environment are two interrelated issues of great concern to modern civilization. As the world population will soon reach eight billion, the demand for energy will dramatically increase, intensifying the use of fossil fuels. Ut

Geology and Ground-water Chemistry, Curlew Valley, Northwestern Utah and South-Central Idaho, Implications for Hydrogeology CRC Press

Global warming is widely considered to be one of the most serious environmental problems for current and future generations.

Science of Carbon Storage in Deep Saline Formations Simon and Schuster

Industrial Ecology (IE) is an emerging multidisciplinary field. University departments and higher education programs are being formed on the subject following the lead of Yale University, The Norwegian University of Science and Technology (NTNU), Leiden University, University of Michigan at Ann Arbor, Carnegie Mellon University, University of California at Berkeley, Institute for Superior Technology in Lisbon, Eidgenössische Technische Hochschule (ETH) Zürich, and The University of Tokyo. IE deals with stocks and flows in interconnected networks of industry and the environment, which relies on a basic framework for analysis. Among others, Input-Output Analysis (IOA) is recognized as a key conceptual and analytical framework for IE. A major challenge is that the field of IOA manifests a long history since the 1930s with two Nobel Prize Laureates in the field and requires considerable analytical rigor. This led many instructors and researchers to call for a high-quality publication on the subject which embraces both state-of-the-art theory and principles as well as practical applications.