



Thomas Adebayo

Carbon Dioxide Storage in Unconventional Underground Reservoirs

A Laboratory Study Approach



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Carbon Dioxide Storage In Unconventional Underground Reservoirs A Laboratory Study Approach

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Geological Storage of CO₂ in Deep Saline Formations Auli Niemi, Jacob Bear, Jacob Bensabat, 2017-02-24 This book offers readers a comprehensive overview and an in depth understanding of suitable methods for quantifying and characterizing saline aquifers for the geological storage of CO₂ It begins with a general overview of the methodology and the processes that take place when CO₂ is injected and stored in deep saline water containing formations It subsequently presents mathematical and numerical models used for predicting the consequences of CO₂ injection This book provides descriptions of relevant experimental methods from laboratory experiments to field scale site characterization and techniques for monitoring spreading of the injected CO₂ within the formation Experiences from a number of important field injection projects are reviewed as are those from CO₂ natural analog sites Lastly the book presents relevant risk management methods Geological storage of CO₂ is widely considered to be a key technology capable of substantially reducing the amount of CO₂ released into the atmosphere thereby reducing the negative impacts of such releases on the global climate Around the world projects are already in full swing while others are now being initiated and executed to demonstrate the technology Deep saline formations are the geological formations considered to hold the highest storage potential due to their abundance worldwide To date however these formations have been relatively poorly characterized due to their low economic value Accordingly the processes involved in injecting and storing CO₂ in such formations still need to be better quantified and methods for characterizing modeling and monitoring this type of CO₂ storage in such formations must be rapidly developed and refined

Biomass and Carbon Fuels in Metallurgy Jaroslav Legemza, Mária Fröhlichová, Róbert Findorák, 2019-12-19 Biomass and Carbon Fuels in Metallurgy presents contemporary and new insights into the use of carbonaceous Biomass fuels in the metallurgical sector The authors describe application of these fuels in different technological processes to produce pig iron steel and ferroalloys Emphasis is placed on biomass and its metallurgical utilization Coverage includes the specification of fuels their classification and the characteristics of their basic properties The use of carbonaceous fuels in the production of various kinds of agglomerates ferrous manganese and metalized is also covered Key Features Provides a comprehensive view of carbonaceous fuels in various metallurgy processes Details experiments conducted on the use of traditional and alternative biomass carbonaceous fuels for the production of agglomerates Demonstrates that the energy potential of biomass can also be successfully used in pyrometallurgical processes Describes applications of biomass based fuels in different technological processes for the production of pig iron steel and ferroalloys Coverage includes the specification of fuels their classification and the characteristics of their basic properties

CO₂ Storage in Carboniferous Formations and Abandoned Coal Mines Manchao He, Luis Ribeiro e Sousa, Derek Elsworth, Euripedes Vargas Jr., 2011-09-16 Underground geological storage of carbon dioxide CO₂ has considerable potential for mitigating climate change CO₂ can be safely injected and stored at well characterized and properly managed sites

Injecting carbon dioxide in deep geological formations can store it underground for long periods of time Depleted oil and gas reservoirs saline aqu

Energy Research Abstracts, 1995 *EPA Publications Bibliography* United States. Environmental Protection Agency, 1991 Geophysical Exploration for Hydrocarbon Reservoirs, Geothermal Energy, and Carbon Storage Said Gaci, 2025-11-10 A practical guide to the latest technologies and techniques in subsurface energy exploration In *Geophysical Exploration for Hydrocarbon Reservoirs Geothermal Energy and Carbon Storage New Technologies and AI based Approaches* distinguished researcher Said Gaci delivers a practice oriented overview and comparison of the concepts methods and workflows for the geophysical characterization of hydrocarbon and geothermal reservoirs including those reservoirs suitable for large scale carbon sequestration Organized into four parts the book begins with a summary of novel petroleum exploration technologies and discussions of illustrative case studies from around the world It then explains how to integrate seismic and other non invasive surveying methods for a comprehensive multiscale reservoir characterization The third part explores the implementation of artificial intelligence tools in remote exploration rock typing and fluid prediction The final part demonstrates how to apply hydrocarbon exploration methods to the exploration and development of geothermal reservoirs and underground carbon dioxide storage sites Readers will find A multidisciplinary approach to combining conventional hydrocarbon exploration techniques with the power of artificial intelligence A thorough understanding of subsurface reservoir systems that links recent technical advances with new geological insights Practice oriented discussions of advanced technologies for non invasive reservoir characterization Selected case studies that illustrate the application of novel concepts in a real world setting Perfect for geologists geoengineers geophysicists and fossil fuel professionals *Geophysical Exploration for Hydrocarbon Reservoirs Geothermal Energy and Carbon Storage* will also benefit anyone aiming to remain at the forefront of subsurface energy exploration in the twenty first century **EPA Publications Bibliography Quarterly Abstract Bulletin** United States. Environmental Protection Agency, 1998-07 Production Technology for Deep Reservoirs Yan Peng, Yishan Liu, Hongyan Qu, Feng Dong, Jiehao Wang, 2024-11-28 Underground energy is important for the whole society development but conventional underground energy is becoming exhausted The energy for deep reservoirs usually 3500m for petroleum engineering 1000m for mining engineering is diverse including not limited shale gas oil tight gas oil hot dry rock geothermal reservoirs and coal gasification Although it has abundant reserves the energy production from deep reservoirs is difficult in stimulations because the geological conditions for those deep reservoirs are tougher than those for conventional reservoirs such as high in situ stress obvious heterogeneity in rock properties and complex natural fracture networks Meanwhile common technologies also have environmental impacts The development trend of production technology for deep reservoirs requires it to be environment friendly or decrease environmental impacts at least CO₂ utilization may achieve this environmental aim In order to efficiently produce energy from deep reservoirs technological innovation is booming around North America Europe and

Asia **Fundamentals and Practical Aspects of Gas Injection** Reza Azin,Amin Izadpanahi,2021-07-28 This book covers different aspects of gas injection from the classic pressure maintenance operation to enhanced oil recovery EOR underground gas storage UGS and carbon capture and storage CCS The authors detail the unique characteristics and specific criteria of each application including material balance equations phase behaviour reservoir engineering well design operating aspects surface facilities environmental issues Examples data and simulation codes are provided to enable the reader to gain an in depth understanding of these applications Fundamentals and Practical Aspects of Gas Injection will be of use to practising engineers in the fields of reservoir engineering and enhanced oil recovery It will also be of interest to researchers academics and graduate students working in the field of petroleum engineering Petroleum Abstracts ,1993

Catalog of Federal Domestic Assistance ,2011 Identifies and describes specific government assistance opportunities such as loans grants counseling and procurement contracts available under many agencies and programs Energy Abstracts for Policy Analysis ,1981 *Hydro-Mechanical Coupling and Creep Behaviours of Geomaterials* Yanlin Zhao, Hang Lin,Yixian Wang,Lianyang Zhang,2021-03-03 *Wellbore Integrity* Arash Dahi Taleghani,Livio Santos,2023-01-29 There have been concerns about the integrity of thousands of wells drilled worldwide for different purposes ranging from oil and gas to geological carbon sequestration This is the first book to integrate different aspects of wellbore integrity into a single volume It looks at the energy sector s green wave movement by expanding an important topic for practitioners regulators and students It is an area where petroleum and subsurface engineers will increasingly need to be involved in the future to address growing expectations regarding environmental impacts and sustainability Coverage also includes recent developments in regulations and R D with indications on emerging areas Wellbore Integrity From Theory to Practice will be a valuable resource for practicing engineers and students working on problems related to subsurface energy subsurface disposals and environmental impacts of oil and gas wells In parallel it will be a valuable reference for engineers and scientists interested in repurposing existing wells for carbon sequestration or geothermal purposes *Transport in Shale Reservoirs* Kun Sang Lee,Tae Hong Kim,2019-02-20 Transport in Shale Reservoirs fills the need for a necessary integrative approach on shale reservoirs It delivers both the fundamental theories of transport in shale reservoirs and the most recent advancements in the recovery of shale oil and gas in one convenient reference Shale reservoirs have distinctive features dissimilar to those of conventional reservoirs thus an accurate evaluation on the behavior of shale gas reservoirs requires an integrated understanding on their characteristics and the transport of reservoir and fluids Updates on the various transport mechanisms in shale such as molecular diffusion and phase behavior in nano pores Applies theory to practice through simulation in both shale oil and gas Presents an up to date reference on remaining challenges such as organic material in the shale simulation and multicomponent transport in CO₂ injection processes *Scientific and Technical Aerospace Reports* ,1994 *Petroleum Abstracts. Literature and Patents* ,1992 **Geological Carbon Storage** Stéphanie Vialle,Jonathan

Ajo-Franklin, J. William Carey, 2018-11-12 Geological Carbon Storage Subsurface Seals and Caprock Integrity Seals and caprocks are an essential component of subsurface hydrogeological systems guiding the movement and entrapment of hydrocarbon and other fluids Geological Carbon Storage Subsurface Seals and Caprock Integrity offers a survey of the wealth of recent scientific work on caprock integrity with a focus on the geological controls of permanent and safe carbon dioxide storage and the commercial deployment of geological carbon storage Volume highlights include Low permeability rock characterization from the pore scale to the core scale Flow and transport properties of low permeability rocks Fundamentals of fracture generation self healing and permeability Coupled geochemical transport and geomechanical processes in caprock Analysis of caprock behavior from natural analogues Geochemical and geophysical monitoring techniques of caprock failure and integrity Potential environmental impacts of carbon dioxide migration on groundwater resources Carbon dioxide leakage mitigation and remediation techniques Geological Carbon Storage Subsurface Seals and Caprock Integrity is an invaluable resource for geoscientists from academic and research institutions with interests in energy and environment related problems as well as professionals in the field *The Office of Environmental Management Technical Reports*, 1997 **Energy and Water Development Appropriations for 2016** United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development, 2015

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