



# **Geological Storage of Carbon Dioxide (CO<sub>2</sub>): Geoscience, Technologies, Environmental Aspects and Legal Frameworks (Woodhead Publishing Series in Energy)**

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Geological storage and sequestration of carbon dioxide, in saline aquifers, depleted oil and gas fields or unminable coal seams, represents one of the most important processes for reducing humankind's emissions of greenhouse gases. Geological storage of carbon dioxide (CO<sub>2</sub>) reviews the techniques and wider implications of carbon dioxide capture and storage (CCS).

Part one provides an overview of the fundamentals of the geological storage of CO<sub>2</sub>. Chapters discuss anthropogenic climate change and the role of CCS, the modelling of storage capacity, injectivity, migration and trapping of CO<sub>2</sub>, the monitoring of geological storage of CO<sub>2</sub>, and the role of pressure in CCS. Chapters in part two move on to explore the environmental, social and regulatory aspects of CCS including CO<sub>2</sub> leakage from geological storage facilities, risk assessment of CO<sub>2</sub> storage complexes and public engagement in projects, and the legal framework for CCS. Finally, part three focuses on a variety of different projects and includes case studies of offshore CO<sub>2</sub> storage at Sleipner natural gas field beneath the North Sea, the CO<sub>2</sub>CRC Otway Project in Australia, on-shore CO<sub>2</sub> storage at the Ketzin pilot site in Germany, and the K12-B CO<sub>2</sub> injection project in the Netherlands.

Geological storage of carbon dioxide (CO<sub>2</sub>) is a comprehensive resource for geoscientists and geotechnical engineers and academics and researchers interested in the field.

- Reviews the techniques and wider implications of carbon dioxide capture and storage (CCS)
- An overview of the fundamentals of the geological storage of CO<sub>2</sub> discussing the modelling of storage capacity, injectivity, migration and trapping of CO<sub>2</sub> among other subjects
- Explores the environmental, social and regulatory aspects of CCS including CO<sub>2</sub> leakage from geological storage facilities, risk assessment of CO<sub>2</sub> storage complexes and the legal framework for CCS

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