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Geological carbon storage involves injection of captured CO2 into appropriate geological formations deep underground, where the CO2 should remain for hundreds to thousands of years or more. In Geological Storage of CO2, the basic principles that underlie geological storage are presented, including fundamentals of fluid movement in the subsurface, and the mathematical models used to describe storage operations.

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Geological Storage of CO₂: Modeling Approaches for Large Scale Simulation. Geological Storage of CO₂. : Modeling Approaches for Large Scale Simulation. Author (s): Jan M. Nordbotten. Michael A. Celia. First published:4 November 2011. Print ISBN:9780470889466 | Online ISBN:9781118137086 | DOI:10.1002/9781118137086.

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The conclusions from this work are that, in order to model CO₂ storage accurately, a significant amount of geological information is required and that an integrated approach to reservoir characterisation for CO₂ storage

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Simulation is very important. It is also very important to consider the geomechanical effects, both during the injection period and for several decades after injection has ceased. © 2011 Published by Elsevier Ltd.

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Reservoir models of CO₂ storage in deep saline formations will frequently differ from traditional models of oil and gas reservoirs in the following respects that will need to be considered when designing the model: CO₂ storage models can have larger areal extent, covering areas outside the primary storage target to capture the long-term migration of the CO₂ plume, displaced fluids, and pressure perturbations.

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The numerical modeling of geomechanical aspects of CO₂ geological storage, such as uplift, fault reactivation and induced seismicity, is usually at a large scale. In some cases, it is impractical and unnecessary to track all local behaviors of rock mass. Simplification or upscaling can be used to reduce the computational burden.

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anticlines covered with cap rocks an ultra low
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Simulation of co2 involves the injection of co2 into suitable geological formations and the monitoring of the injected plume over time to ensure containment over the last two or three decades

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