



Geological storage of CO2

By Hellevang, Helge

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Interactions between CO₂, saline water and minerals | Underground storage of CO₂ in saline aquifers has been suggested as an option to reduce man-made emissions of CO₂ to the atmosphere. Injected CO₂ reacts with the formation water and form carbonic acid which in turn lowers the pH and leads to corrosion of formation minerals. Liberated elements reacts subsequently and form stable mineral carbonates. The doctoral thesis gives an overview of gas-water- rock interactions following CO₂ storage, 1D and 3D reactive transport simulations of CO₂ storage into the Utsira Sand using the ACCRETE/ATHENA numerical codes, and papers on the stability of dawsonite (NaAl (OH)2CO3). The latter include the first published data on the far-from-equilibrium dissolution rates of dawsonite at acidic conditions and discussions on the stability of dawsonite during and following CO₂ injection. | Format: Paperback | Language/Sprache: english | 275 gr | 200 pp.

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