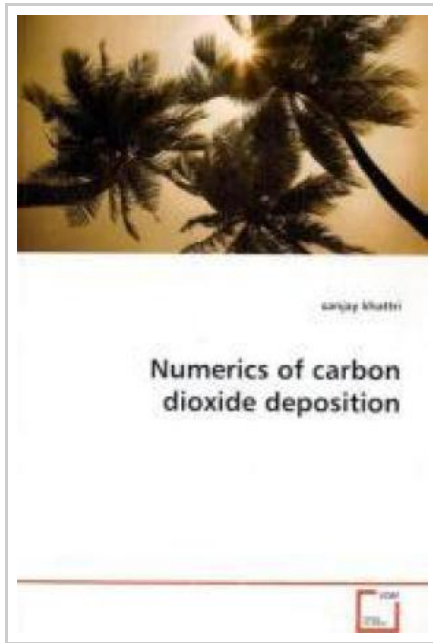



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Numerics of carbon dioxide deposition

By sanjay khattri

VDM Verlag Jun 2009, 2009. Taschenbuch. Book Condition: Neu. 220x150x9 mm. This item is printed on demand - Print on Demand Neuware - For the success of geological sequestration, an accurate estimation of migration patterns of green-house gases is essential. Numerical and mathematical modeling of processes in a domain requires grid generation in the domain, discretization of the continuum equations on the generated grid, solution of the formed linear or nonlinear system of discrete equations and finally visualization of the results. In this work, we present CO₂ flow in porous media. We present the mathematical models and their discretization for capturing major physical processes associated with carbon dioxide deposition in geological formations. Some important simulations of practical applications in 2D and 3D are presented. The author has done the verification of the existing software package named Athena for understanding carbon dioxide deposition. The work also present grid generation in geological formation. Finite volume discretization of single phase flow equation on adaptive grids. 148 pp. Englisch.



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