



Microseismic Monitoring and Geomechanical Modelling of CO₂ Storage in Subsurface Reservoirs (Springer Theses)

James P. Verdon

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This thesis presents an impressive summary of the potential to use passive seismic methods to monitor the sequestration of anthropogenic CO₂ in geologic reservoirs. It brings together innovative research in two distinct areas – seismology and geomechanics – and involves both data analysis and numerical modelling. The data come from the Weyburn-Midale project, which is currently the largest Carbon Capture and Storage (CCS) project in the world. James Verdon's results show how passive seismic monitoring can be used as an early warning system for fault reactivation and top seal failure, which may lead to the escape of CO₂ at the surface.

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