
VORTRAG

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"Degradation and swelling of sulphate-bearing rocks"

Degradation and swelling of sulphate-bearing rocks: The possibility of identifying cause-effect relationships between the chemo-mechanical degradation of rocks and their expansive behaviour has a great importance in rock engineering. Two cases of expansive phenomena involving anhydritic-gypsiferous siltstones and claystones from the Lower Ebro Basin (Catalonia, Spain) illustrate this situation: Ascó II -a nuclear power station-, and Lilla -a high speed railway tunnel. The main mechanisms of both degradation and swelling in these cases are presented and their relationship with long term deformation and pressures discussed....

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