

Abstract: This study investigates the mechanical response of an underground cavern subjected to cyclic high gas pressure, aiming to establish a theoretical foundation for the design of lined ...

The use of abandoned coal mine tunnels as underground compressed air energy storage (CAES) facilities has garnered significant attention given that it effectively repurposes unused ...

The deformation of the reservoir during energy storage results from the combined effects of poroelasticity and thermal expansion (Li et al., 2023). As discussed in Section 3, the ...

??: ? 2022In the present work, we revisited the classical topic of elastic energy storage during strain hardening of metals from a perspective of the analytically tractable thermodynamic ...

In the present work, we revisited the classical topic of elastic energy storage during strain hardening of metals from a perspective of the analytically tractable thermodynamic modelling ...

This study investigates the mechanical response of an underground cavern subjected to cyclic high gas pressure, aiming to establish a theoretical foundation for the design of lined rock ...

