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A Thermodynamics-based Model for Brittle to Ductile Behaviour and Localised Failure of Porous Rocks

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Highlights

- A new thermodynamics-based constitutive model employing a new way for coupling damage and plasticity is proposed.
- The proposed model uses a single set of identifiable parameters.
- The proposed model can predict the macro-mechanical behaviour of porous rocks together with the onset and modes of localisation under different confining pressures.

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