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2.	Record Nr.	UNINA9911018764703321
	Autore	Chen Xiaohui
	Titolo	Multiphase Flows in Deformable Geomaterials : Chemo-Physical Coupled Mixture Theory and Non-Linear Thermodynamics
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	Altri autori (Persone)	WangManhui
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	Soggetti	Rock deformation
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	Nota di contenuto	1. Conceptual model for porous media 2. Non-equilibrium thermodynamics concept 3. Hydro-mechanical coupled modelling 4. Unsaturated hydro-mechanical modelling for swelling rocks 5. Unsaturated hydro-mechanical-chemical coupled modelling with

swelling and osmosis 6. Thermo-hydro-mechanical coupled modelling with thermo osmosis 7. Thermo-hydro-mechanical-chemical coupled modelling with coupled chemo-thermo osmosis Appendices 1. List of symbols 2. Basic mathematic formulation 3. Continuum mechanics.

Sommario/riassunto

Multiscale coupling of multiphase flow and multicomponents within a deformable porous medium is complex and interdisciplinary. Chemo-physical coupled mixture theory and non-linear thermodynamics processes can be used to to derive multi-phase transport equations and mechanics. This book is particularly addressed to geoengineering.
