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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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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 derive multi-phase transport equations and mechanics. This book is particularly addressed to geoengineering.