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	Autore	Cattaneo, Renato
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	Altri autori (Persone)	Pavarini, Stefano
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2.	Record Nr.	UNINA9911007474503321
	Autore	Lu Dechun
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Nota di contenuto

Introduction -- Non-orthogonal plastic theory in unsteady environments -- Non-orthogonal elastoplastic model for soil in the steady environment -- Non-orthogonal elastoplastic model for soil in the unsteady water environment -- Non orthogonal plastic damage model of concrete -- Non-orthogonal elastoplastic model for concrete in the variable strain rate environment -- Unconstrained stress update algorithm for elastoplastic models -- Stress update algorithm based on numerical optimization methods -- Stress update algorithm based on numerical differentiation methods -- Stress update algorithm based on integral nonlocal method.

Sommario/riassunto

This book primarily introduces innovative multi-physical plastic modeling for geomaterials in unsteady environments and advanced numerical methods for elastoplastic models, topics not systematically covered in other literature. The constitutive models in the form of stress-strain-environment will be interesting to students and researchers in geotechnical engineering and rock and soil mechanics. The book provides a thorough exploration of modeling techniques and algorithmic flowcharts, facilitating a deeper understanding of both theoretical models and numerical methods. It also guides readers in applying these tools to describe the mechanical behavior of geomaterials in various unsteady environments and addresses computational challenges in elastoplastic numerical analysis.
