Record Nr.	UNINA9910350318703321
Autore	Wu Yongkang
Titolo	Multi-physics Coupling Analysis of Clayey Core Wall of High Earth- Rockfill Dam / / by Yongkang Wu
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-1032-7
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (148 pages)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190- 5053
Disciplina	627.83
Soggetti	Engineering geology
	Engineering—Geology
	Foundations
	Hydraulics
	Geotechnical engineering
	Mechanics
	Mechanics, Applied
	Geoengineening, Foundations, Hydraulics
	Theoretical and Applied Mechanics
Lingua di pubblicaz	
Formato	Materiale a stampa
	Managrafia
Nota di contenuto	Introduction Summary of research progress Experimental study
	unsaturated seepage-consolidation Numerical method of
	unsaturated seepage-consolidation theory Consolidation analysis of
	high earth-rockfill dam Conclusions and outlook.
Sommario/riassunte	Nominated by Tsinghua University as an outstanding Ph.D. thesis, this
	book investigates the mechanical properties of unsaturated compacted clavey soil, the multi-field coupling consolidation theory of upsaturated
	soil and its application to a 261.5 m high earth-rockfill dam. It
	proposes a multi-field coupling analysis method of consolidation, and
	develops an efficient and practical finite element (FE) program for
	large-scale complex earth-rockfill dams. The book is primarily
	intended for researchers studying the multi-field coupling analysis of

seepage consolidation.