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Soggetti	Engineering geology Engineering—Geology Foundations Hydraulics Geotechnical engineering Mechanics Mechanics, Applied Geoengineering, Foundations, Hydraulics Geotechnical Engineering & Applied Earth Sciences Theoretical and Applied Mechanics
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Nota di contenuto	Introduction -- Summary of research progress -- Experimental study on the mechanical properties of core material -- Theoretical study on unsaturated seepage-consolidation -- Numerical method of unsaturated seepage-consolidation theory -- Consolidation analysis of high earth-rockfill dam -- Conclusions and outlook.
Sommario/riassunto	Nominated by Tsinghua University as an outstanding Ph.D. thesis, this book investigates the mechanical properties of unsaturated compacted clayey soil, the multi-field coupling consolidation theory of unsaturated 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.

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