

Multi-physics Coupling Analysis of Clayey Core Wall of High Earth-Rockfill Dam

Yongkang Wu, author

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Abstrak

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.