Geotechnical Finite Element Analysis

A practical guide

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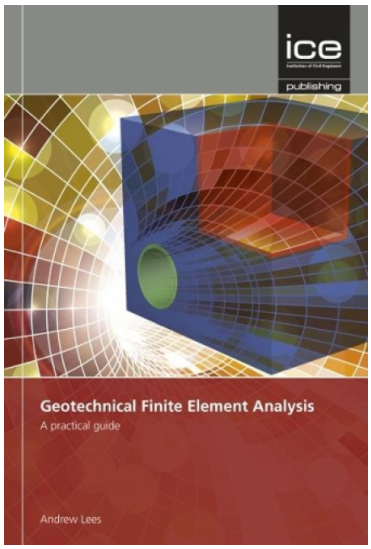

About the Book

Geotechnical Finite Element Analysis provides the latest practical guidance and comprehensive explanations of applying finite element analysis (FEA) in geotechnical design – from planning an analysis, determining how the FEA relates to the design process and explaining the decisions that need to be made at each stage through to validation of results and reporting.

This highly illustrated guide expands on the practical benefits of FEA, such as the analysis of complex problems, overall increased productivity and revenue, and explains the complex theory behind the decisions that need to be made at each stage of a project.

Geotechnical Finite Element Analysis:

- features as the first practical and internationally applicable guidebook in this subject area
- includes detailed guidance on using FEA together with international design codes
- clarifies the factors to consider when selecting from the various constitutive models
- attests as a training aid, facilitated by complete worked examples
- covers 160 competence statements from the COGAN Competency Tracker maintained by NAFEMS

Geotechnical Finite Element Analysis aims to combine essential learning material in one place. As a practical guide, textbook, reference and training tool, it is aimed at practising civil, structural and geotechnical engineers, and those undergoing training in geotechnical FEA and performing geotechnical FEA in design.

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