IMPLEMENTATION OF MODERN CONSTITUTIVE LAWS AND 
ANALYSIS OF FIELD PROBLEMS

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ABSTRACT

Nonlinear material models are being used increasingly in the analysis of complex geotechnical engineering works. Such analyses have to answer, if possible, two basic questions. Firstly, what is the nature of the ultimate or limit state of the works and, secondly, what are the likely deformations under normal loading conditions.

The type of calculation to be carried out is likely to differ from project to project. In some cases it will be necessary to use more complicated material models, whereas in others, relatively simple nonlinear material models will suffice.