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Geotechnical engineering numerical

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With the advance of computer technology and the progress of computing power, numerical simulation methods have become an indispensable means to solve geotechnical engineering problems. Most of the numerical methods used in geotechnical engineering are the finite difference method (FDM), finite element method (FEM), boundary element method (BEM), discontinuous deformation analysis (DDA) method, discrete element method (DEM), particle flow method (PFM), etc.

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prevalent in numerical modelling for geotechnical applications. Finite Element Method (FEM) modelling is a numerical procedure to determine the stresses and strains within a complex engineering problem that can combine structures, soils and civil infrastructure. This form of numerical modelling for soil-structure

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presentation of numerical methods; the book has earned the Meriam-Wiley award, which is given by the American Society for Engineering Education for the best textbook. Because software packages are now regularly used for numerical analysis, this eagerly anticipated revision maintains its strong focus on appropriate use of computational tools.

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