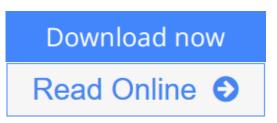# Computational Geomechanics with Special Reference to Earthquake Engineering

By Olgierd C. Zienkiewicz, A. H. C. Chan, M. Pastor, B. A. Schrefler, T. Shiomi

Computational Geomechanics with Special Reference to Earthquake Engineering By Olgierd C. Zienkiewicz, A. H. C. Chan, M. Pastor, B. A. Schrefler, T. Shiomi

Computational Geomechanics:
* introduces the full theory of dynamic and static behaviour of porous media and shows how computation can predict the deformations of a structure, subject to an earthquake or consolidation.
* introduces the use of numerical, finite element procedures for soil and rock mechanics problems which has increased rapidly throughout the last decade.
* provides a comprehensive survey of major, constitutive models, which can simulate soil behaviour rationally.
* explains practical procedures based on computational experience for real projects with particular emphasis on earthquake engineering.
Static problems which occupy a particular area of dynamics can also be solved by identical methods, making the book relevant to all researchers and engineers concerned with geomechanics. Earthquake Engineering is stressed throughout as it is in this field that the most difficult examples arise; however, other applications are also noted.

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Editorial Review

Review
..."this book enriches remarkably the present literature..."
-- Meccanica, Vol 35/1, 2000

From the Back Cover
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