Computational Geomechanics: Theory and Applications

Andrew K. Chan, Manuel Pastor, Bernard Schrefler, Tadahiko Shiomi, O. C. Zienkiewicz

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Up-to-date edition of Computational Geomechanics, broadening the focus of the first edition to include more applications

This extended second edition of the highly successful book *Computational Geomechanics* with special reference to Earthquake Engineering by Zienkiewicz O.C., Chan A.H.C., Pastor M., Schrefler B. A. and Shiomi T. introduces the theory and application of the Biot-Zienkiewicz formulation for saturated and unsaturated soil. This was one of main research areas of the late Prof. Zienkiewicz and his team in Swansea. The formulation given in this book have shown great success in a wide range of problems ranging from failure load under static loading, saturated and unsaturated consolidation, to liquefaction of soil under earthquake loading. The purpose of the book is to introduce and explain the formulation to research students, researchers and practicing engineers so that the method can be properly understood and correctly applied. This edition includes most of the material in first edition updated to include new applications to reflect the work done in the past decade. The change in the sub-title reflects better the new content introduced.

As there is still no comparable publication in the market the authors felt that there is a need to bring out a second edition to incorporate the many significant developments over the past decade. Furthermore, since the first edition, existing computer software has been updated and new computer software has been introduced. This second edition offers the excellent opportunity for the team to report on the progress made in the past decade, guide the readers on how to make use of the formulation and the software and point them to the exciting opportunities ahead.

- Logically organized, thoroughly updated edition of the classic book by Zienkiewicz et al.
- New chapter on computational methods for fast catastrophic landslides.
- Companion website with example code including SWANDYNE and GeoMadrid.
- Each chapter includes multiple question, problems and hands-on experiments, as well as suggested applications to other situations.

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