



The Finite Element Method in the Static and Dynamic Deformation and Consolidation of Porous Media, 2nd Edition

R. W. Lewis, B. A. Schrefler

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The Finite Element Method in the Static and Dynamic Deformation and Consolidation of Porous Media Second Edition Roland W. Lewis, University of Wales Swansea, UK Bernard A. Schrefler, University of Padua, Italy Following the highly successful first edition, this text deals with numerical solutions of coupled thermo-hydro-mechanical problems in porous media. Governing equations are newly derived in a general form using both averaging methods (hybrid mixture theory) and an engineering approach. Unique new features of the book include numerical solutions for fully and partially saturated consolidation, subsidence analysis including far field boundary conditions (Infinite Elements), new case studies and also petroleum reservoir simulation. Extended heat and mass transfer in partially saturated porous media, and consideration of phase change, are covered in detail. In addition, large strain, fully and partially saturated, soil dynamics problems are explained. Back analysis for consolidation problems is also included. Significantly, the reader is provided with access to a Finite Element code for coupled thermo-hydro-mechanical problems in partially saturated porous media with full two phase flow and phase change, written according to the theory outlined in the book and obtainable via the Network of the Italian Research Council (COMES). With a range of engineering applications from geotechnical and petroleum engineering through to bioengineering and materials science, this book represents an important resource for students, researchers and practising engineers in all these and related fields.

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