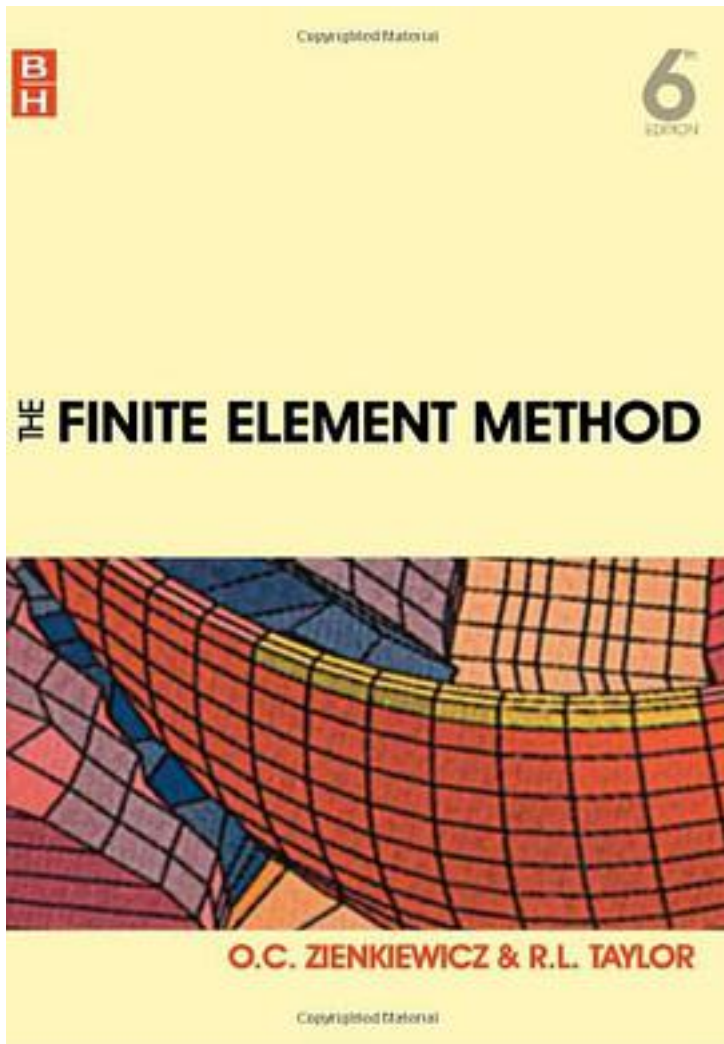# The Finite Element Method for Solid and Structural Mechanics, Sixth Edition

The Finite Element Method for Solid and Structural Mechanics, Sixth Edition_下载链接1_

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This is the key text and reference for engineers, researchers and senior students dealing with the analysis and modelling of structures from large civil engineering projects such as dams, to aircraft structures, through to small engineered components. Covering small and large deformation behaviour of solids and structures, it is an essential book for engineers and mathematicians. The new edition is a complete solids and structures text and reference in its own right and forms part of the world-renowned "Finite Element Method" series by Zienkiewicz and Taylor. New material in this edition includes separate coverage of solid continua and structural theories of rods, plates and shells; extended coverage of plasticity (isotropic and anisotropic); node-to-surface and 'mortar' method treatments; problems involving solids and rigid and pseudo-rigid bodies; and multi-scale modelling. Includes key features such as: dedicated coverage of solid and structural mechanics by world-renowned authors, Zienkiewicz and Taylor; new material including separate coverage of solid continua and structural theories of rods, plates and shells; extended coverage for small and finite deformation; elastic and inelastic material constitution; contact modelling; problems involving solids, rigid and discrete elements; and multi-scale modelling. This book is accompanied by online downloadable software.

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