

Zienkiewicz (O.C.)

The Finite Element Method (The Third, Expanded and Revised Edition of The Finite Element Method in Engineering Science)

Référence : 83147

McGraw-Hill Book Company (Uk) Limited Malicorne sur Sarthe, 72, Pays de la Loire, France 1985 Book condition, Etat : Bon hardcover, editor's binding, under editor's clear blue printed dust-jacket grand In-8 1 vol. - 802 pages

Commentaire : 3rd edition, reprinted, 1985 Contents, Chapitres : Preface, Acknowledgments, Contents, Symbols, xv, Text, 787 pages - Some preliminaries, the standard discrete system - Finite element of an elastic continuum, displacement approach - Generalization of the finite element concepts, Weighted residual and variational approaches - Plane stress and plane strain - Axi-symmetry stress analysis - Three-dimensional stress analysis - Element shape functions, some general families on C^0 continuity - Curved, isoparametric elements and numerical integration - Some applications of isoparametric elements in two or three dimensional stress analysis - Bending of thin plates, a C^1 continuity problem - Non-conforming elements, substitute shape functions, reduced integration and similar useful tricks - Lagrangian constraints in energy principles of elasticity, complete field and interface variable, hybrid methods - Shells as an assembly of flat elements - Axi-symmetric shells - Semi-analytical finite element processes, use of orthogonal functions - Shells as a special case of three-dimensional analysis - Steady state field problems, heat conduction, electric potential, fluid flow - Nonlinear material problems, plasticity, creep, nonlinear field problems - Geometrically non-linear problems - The time dimension semi-discretization of field and dynamic problems and analytical solution procedures - The time dimension finite element approximation to initial value-transient problems - Flow of viscous fluids, some special problems of convective transport - Boundary solution processes and the finite element method infinite domains, singularity in fracture mechanics - Computer procedures for finite element analysis - Appendix - Index the dust-jacket is rather fine and complete, inside is fine but there is a stamp in filigrane on the first page (private collection), no other markings, it remains a near fine copy of the 1985 edition, one of the most complete of this work first published in 1967

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