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6.5 Computer Implementation Aspects and Numerical Results of CPT Elements

Sommario/riassunto

This book presents the theory and computer implementation of the finite element method as applied to nonlinear problems of heat transfer and similar field problems, fluid mechanics (flows of incompressible fluids), and solid mechanics (elasticity, beams and plates). Both geometric as well as material nonlinearities are considered, and static and transient (i.e. time-dependent) responses are studied. Although there exist a number of books on nonlinear finite elements that serve asgood references for engineers who are familiar with the subject and wish to learn advanced topics or the latest deve