Computation of Nonlinear Structures: Extremely Large Elements for Frames, Plates and Shells

By Debabrata Ray

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Comprehensively introduces linear and nonlinear structural analysis through mesh generation, solid mechanics and a new numerical methodology called c-type finite element method

- Takes a self-contained approach of including all the essential background materials such as differential geometry, mesh generation, tensor analysis with particular elaboration on rotation tensor, finite element methodology and numerical analysis for a thorough understanding of the topics
- Presents for the first time in closed form the *geometric stiffness*, the *mass*, the *gyroscopic damping* and the *centrifugal stiffness* matrices for beams, plates and shells
- Includes numerous examples and exercises
- Presents solutions for locking problems

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