Nonlinear Structural Dynamics Using FE Methods

Description: Nonlinear Structural Dynamics Using FE Methods emphasises fundamental mechanics principles and outlines a modern approach to understanding structural dynamics. This will be useful to practising engineers but also students who will find advanced topics presented in an accessible manner. The book successfully presents the fundamentals of structural dynamics and infuses them with finite element (FE) methods. First, the author establishes and develops mechanics principles that are basic enough to form the foundations of FE methods. Second, the book presents specific computer procedures to implement FE methods so that general problems can be ‘solved’ - that is, responses can be produced given the loads, initial conditions and so on. Finally, the book introduces methods of analyses to leverage and expand the FE solutions.

Contents: Notation; Introduction;

Part I - Mechanics and Models:
1. Dynamics of simple elastic systems;
2. Dynamics of discretized systems;
3. Modeling elastic structures;
4. Modeling applied loads;
5. Computational methods;

Part II - Dynamic Analyses:
6. Modal analysis of large systems;
7. Vibration of rods and beams;
8. Vibration of plates and shells;
9. Wave propagation;
10. Stability of motion; Project level problem set; References; Index.


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