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9. Analysis of response in the frequency domainPART 3; 10. Free vibration response: Multi-degree-of-freedom system; 11. Numerical solution of the eigenproblem; 12. Forced dynamic response: Multi-degree-of-freedom systems; 13. Analysis of multi-degree-of-freedom systems: Approximate and numerical methods; PART 4; 14. Formulation of the equations of motion: Continuous systems; 15. Continuous systems: Free vibration response; 16. Continuous systems: Forced-vibration response; 17. Wave propagation analysis; PART 5; 18. Finite element method; 19. Component mode synthesis
20. Analysis of nonlinear responseAnswers to selected problems

Sommario/riassunto

This major textbook provides comprehensive coverage of the analytical tools required to determine the dynamic response of structures. The topics covered include: formulation of the equations of motion for single- as well as multi-degree-of-freedom discrete systems using the principles of both vector mechanics and analytical mechanics; free vibration response; determination of frequencies and mode shapes; forced vibration response to harmonic and general forcing functions; dynamic analysis of continuous systems;and wave propagation analysis.
