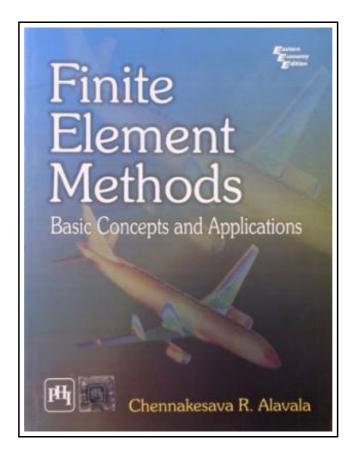
Finite Element Methods: Basic Concepts and Applications



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Reviews

This ebook is very gripping and fascinating. Sure, it is engage in, nevertheless an amazing and interesting literature. It is extremely difficult to leave it before concluding, once you begin to read the book.

(Ms. Ora Buckridge)

FINITE ELEMENT METHODS: BASIC CONCEPTS AND APPLICATIONS



PHI Learning, 2009. Softcover. Book Condition: New. 18 x 24 cm. Finite Element Methods form an indispensable part of engineering analysis and design. The strength of FEM is the ease and elegance with which it handles the boundary conditions. This compact and well-organized text presents a comprehensive analysis of Finite Element Methods (FEM). The book gives a clear picture of structural, torsion, free-vibration, heat transfer and fluid flow problems. It also provides detailed description of equations of equilibrium, stress-strain relations, interpolation functions and element design, symmetry and applications of FEM. The text is a synthesis of both the physical and the mathematical characteristics of finite element methods. A question bank at the end of each chapter comprises descriptive and objective type questions to drill the students in self-study. KEY FEATURES # Includes step-by-step procedure to solve typical problems using ANSYS® software. # Gives numerical problems in SI units. # Elaborates shaper functions for higher-order elements. # Furnishes a large number of worked-out examples and solved problems. This profusely illustrated, student-friendly text is intended primarily for undergraduate students of Mechanical/Production/Civil and Aeronautical Engineering. By a judicious selection of topics, it can also be profitably used by postgraduate students of these disciplines. In addition, practising engineers and scientists should find it very useful besides students preparing for competitive exams. CONTENTS: Preface? Acknowledgements 1. INTRODUCTION 2. FINITE ELEMENT MODELLING 3. ONE DIMENSIONAL BAR ELEMENTS 4. PLANE TRUSS ELEMENTS 5. PLANE BEAM ELEMENTS 6. PLANE FRAME ELEMENTS 7. PLANE STRESS AND PLANE STRAIN PROBLEMS 8. LINEAR TRIANGULAR ELEMENTS 9. ISOPARAMETRIZATION TWO DIMENSIONAL ELEMENTS 10. NUMERICAL INTEGRATION 11. AXISYMMETRIC ELEMENTS 12. THREE DIMENSIONAL STRESS ANALYSIS 13. FREE VIBRATION ANALYSIS 14. REVIEW QUESTIONS 15. TORSION ANALYSIS 16. HEAT TRANSFER ANALYSIS 17. FLUID FLOW ANALYSIS 18. ERROR ANALYSIS 19. SOLUTION OF FE EQUATIONS 20. POSTPROCESSING Appendix:...



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