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Wiley India Pvt. Ltd. 0. Softcover. Book Condition: New. The Graduate Aptitude Test in Engineering (GATE) essentially examines the aptitude of an engineering graduate. It differs from other examinations as it calls for an aptitude based learning and approach on engineering topics. To qualify this exam, an aspirant should have perfect understanding on the fundamentals concepts and requires ability to interpret the fundamental quantities and their relationships and apply them to problem solving. This book acts as a complete reference for aspirants of GATE (CE), covering fundamental aspects of theory before proceeding to relevant questions. The theoretical and numerical concepts in the book are meticulously designed to enhance knowledge and offer valuable insights into critical aspects of the topics. It covers all topics, including new topics introduced in GATE(CE) 2016 syllabus in sufficient depth. The coverage of topics is self-sufficient requiring little to no cross-referencing having sufficient number of questions for practice. Contents: Preface About the Authors Acing the GATE Syllabus for Civil Engineering (CE) 1 Engineering Mechanics 1.1 Introduction 1.2 Fundamental Definitions in Mechanics 1.3 Force and Force System 1.4 Fundamental Principles in Mechanics 1.5 Equilibrium Equations 1.6 Application of Statics 1.7 Statics of Rigid Bodies: Effect of Non-concurrent Forces in a Plane 1.8 Equilibrium of Rigid Bodies and Application to Statics 1.9 Beams 1.10 Friction 1.11 Dynamics 1.12 Newton's Law and D'Alembert's Principle 1.13 Work Energy and Power 1.14 Impact of Elastic Bodies 1.15 Center of Mass and Mass Moment of Inertia 1.16 Principle of Virtual Work 2 Solid Mechanics 2.1 Introduction 2.2 Shear Force and Bending Moment Diagram 2.3 Mechanics of Deformable Bodies 2.4 Notion of Principal Stress 2.5 Theories of Failure 2.6 Bending (Flexure) Theory 2.7 Shear Theory or Shearing Stresses 2.8 Torsion Theory 2.9 Deflections 2.10 Columns 3 Structural Analysis 3.1 Introduction 3.2 Analysis of...



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