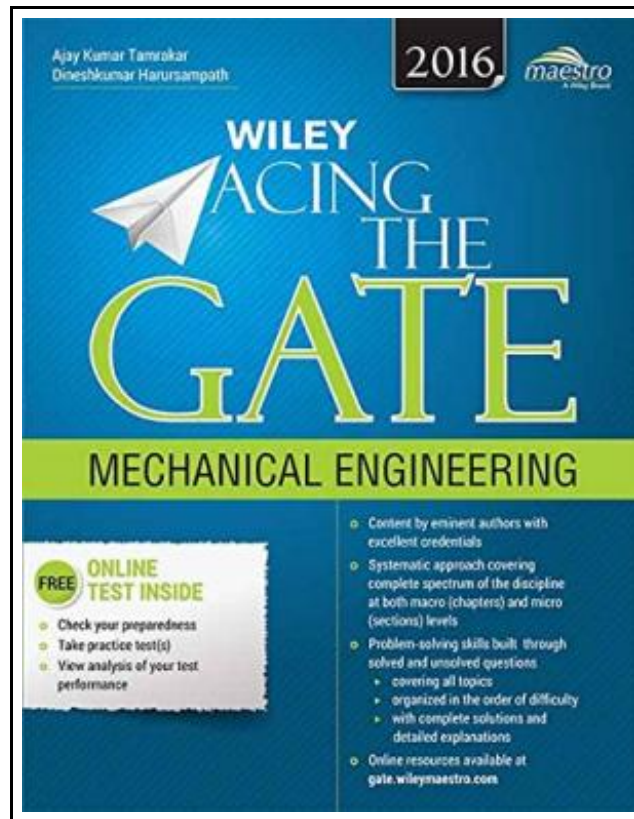


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WILEY ACING THE GATE: MECHANICAL ENGINEERING



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Wiley India Pvt. Ltd, 2015. Softcover. Book Condition: New. This book is aimed to present the subjects of mechanical engineering in a systematic, integrated and precise manner, primarily to meet the requirements of the aspirants of GATE (ME) and to truly help them qualify the examination without unreasonable strain. The book is a self-explanatory and fully competent text for similar competitive examinations and undergraduate courses in mechanical engineering. It helps to solve problems faced by aspirants in terms of extensive syllabus coverage, existing incongruity with syllabus, unavailability of a standard book, etc. Throughout the content, an intuitive and systematic approach is used to reinforce the fundamental concepts. Contents: Contents Preface Acing the GATE Syllabus of GATE (Mechanical Engineering) Methodological Concepts of Engineering Studies Part I Applied Mechanics & Design 1 Engineering Mechanics 1.1 Force 1.2 Moment of a Force 1.3 Equivalent System of a Force 1.4 Single Resultant Force 1.5 Equilibrium of Rigid Bodies 1.6 Structural Analysis 1.7 Rectilinear Kinematics 1.8 Angular Motion 1.9 Motion Under Gravity 1.10 Dependent Motion of Particles 1.11 Newton's Laws of Motion 1.12 Work and Energy 1.13 D'Alembert's Principle 1.14 Impulse and Momentum 1.15 Law of Restitution 1.16 Principle of Virtual Work 2 Strength of Materials 2.1 Stress and Strain 2.2 Dynamic Loading 2.3 Bi-Axial Stress and Strain 2.4 Mohr's Circle 2.5 Beam Loading 2.6 Theory of Bending 2.7 Beam Deflection 2.8 Torsion in Shafts 2.9 Combined Stresses 2.10 Thick-Walled Shells 2.11 Thin-walled Shells 2.12 Struts and Columns 3 Theory of Machines 3.1 Mechanisms and Machines 3.2 Universal Joint 3.3 Kinematic Analysis 3.4 Cam Follower Mechanism 3.5 Gears 3.6 Dynamic Analysis of Slider Crank Mechanism 3.7 Flywheel 3.8 Belt Drive 3.9 Friction 3.10 Governor 4 Vibrations 4.1 Fundamentals 4.2 Undamped Free Vibration 4.3 Free Damped Vibration 4.4 Forced Vibration 5 Design 5.1 Static Loading 5.2...



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