



Theory and Applications of Mechanical Sciences (Part-1)

By Dilip Kumar Adhwarjee

Laxmi Publications Pvt. Ltd, 2009. Softcover. Book Condition: New. First edition. The book "Theory and Applications of Mechanical Sciences Part-1" consists of three sections. Section A deals with `Statics`, Section B deals with `Dynamics` and Section C deals with `Strength of Materials`. In Section A there are nine chapters (1 to 9), Section B is having eight chapters (1 to 8) and Section C is having three chapters (1 to 3). Totally solved examples give the students in-depth knowledge about the subjects. The theory side of the book fully covers the syllabus of WBUT (ME101). The Vector Algebra is very much simplified, and numerical examples follow the theory. Contents: SECTION A : STATICS 1. Introduction to Statics 2. Introduction to Vector Algebra 3. Two and Three Dimensional Force Systems 4. Concept of Equilibrium of Rigid Body 5. Friction 6. Distributed Forces (Centroid, Centre of Gravity and Centre of Mass) 7. Moment of Inertia of Plane Figures (Second Moment of Area) 8. Mass Moments of Inertia (Second Moment of Mass) 9. Virtual Work SECTION B: DYNAMICS 1. Kinematics of Particles (Rectilinear Plane Motion) 2. Plane Curvilinear Motion of Particles 3. Plane Kinematics of Rigid Bodies 4. Combined Motion of Translation and...



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