



An Introduction to Mechanics (Special Indian Edition)

By Daniel Kleppner, Robert Kolenkow

Tata McGraw-Hill Education Pvt. Ltd., 2007. Softcover. Book Condition: New. First edition. This text is designed for the foundation of Mechanics in a first semester undergraduate course on Fundamental Physics. Being an introductory text on a foundational course, Mechanics has been presented in an engaging form taking more in depth rather than the span. Principles have been discussed satisfactorily, and little emphasis has been laid on advanced topics to avoid unwanted sophistication in understanding. Elementary knowledge of Calculus is a pre-requisite for this text. Table of contents Chapter 1 Vectors And Kinematics A Few Mathematical Preliminaries Chapter 2 Newton's Laws The Foundations of Newtonian Mechanics Chapter 3 Momentum Chapter 4 Work and Energy Chapter 5 Some Mathematical Aspects of Force And Energy Chapter 6 Angular Momentum And Fixed Axis Rotation Chapter 7 Rigid Body Motion And The Conservation Of Angular Momentum Chapter 8 Noninertial Systems And Fictitious Forces Chapter 9 Central Force Motion Chapter 10 The Harmonic Oscillator Chapter 11 The Special Theory Of Relativity Chapter 12 Relativistic Kinematics Chapter 13 Relativistic Momentum And Energy Chapter 14 Four Vectors And Relativistic Invariance Printed Pages: 572.



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