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Nota di contenuto	Frontmatter -- Preface -- Acknowledgment -- Contents -- 1 A brief review of calculus for physics -- 2 Physics and measurement -- 3 One-dimensional motion -- 4 Two- and three-dimensional motion -- 5 The laws of motion -- 6 Circular motion and other applications of Newton's laws -- 7 Work and kinetic energy -- 8 Potential energy and conservation of energy -- 9 Linear momentum and collisions -- 10 Rotation of a rigid body -- 11 Rolling motion and angular momentum -- 12 Static equilibrium and elasticity -- 13 Oscillatory motion -- 14 Gravity -- A Solutions -- Bibliography -- Index
Sommario/riassunto	This textbook covers all fundamental concepts of physics and describes how different theories are developed from physical observations and phenomena. After some essential calculus the author presents the complete classical mechanics giving numerous examples and with a clear focus on problem-solving techniques. Due to the high number of exercises at the end of each chapter and their solutions the work is valuable for self-study.