



The Physical Universe

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McGraw-Hill Science/Engineering/Math, 2009. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: 1 The Scientific Method How Scientists Study Nature 1.1 The Scientific Method 1.2 Why Science Is Successful The Solar System 1.3 A Survey of the Sky 1.4 The Ptolemaic System 1.5 The Copernican System 1.6 Kepler's Laws 1.7 Why Copernicus Was Right Universal Gravitation 1.8 What Is Gravity? 1.9 Why the Earth Is Round 1.10 The Tides 1.11 The Discovery of Neptune How Many of What 1.12 The SI System 2 Motion Describing Motion 2.1 Speed 2.2 Vectors 2.3 Acceleration 2.4 Distance, Time, and Acceleration Acceleration of Gravity 2.5 Free Fall 2.6 Air Resistance Force and Motion 2.7 First law of Motion 2.8 Mass 2.9 Second law of Motion 2.10 Mass and Weight 2.11 Third law of Motion Gravitation 2.12 Circular Motion 2.13 Newton's Law of Gravity 2.14 Artificial Satellites 3 Energy Work 3.1 The Meaning of Work 3.2 Power Energy 3.3 Kinetic Energy 3.4 Potential Energy 3.5 Energy Transformations 3.6 Conservation of Energy 3.7 The Nature of Heat Momentum 3.8 Linear Momentum 3.9 Rockets 3.10 Angular Momentum Relativity 3.11 Special Relativity 3.12 Rest Energy 3.13 General Relativity Energy and Civilization 3.14 The...



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