



## Physics Volume 1

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McGraw-Hill Science/Engineering/Math, 2009. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Chapter 1: Introduction 1.1 Why study physics? 1.2 Talking physics 1.3 The use of mathematics 1.4 Scientific notation and significant figures 1.5 Units 1.6 Dimensional analysis 1.7 Problem-solving techniques 1.8 Approximation 1.9 Graphs PART ONE: MECHANICS Chapter 2: Motion Along a Line 2.1 Understanding motion 2.2 Position and displacement 2.3 Velocity: rate of change of position 2.4 Acceleration: rate of change of velocity 2.5 Motion along a line with a constant acceleration 2.6 Visualizing motion along a line with a constant acceleration 2.7 Free fall Chapter 3: Motion in a Plane 3.1 Graphical addition and subtraction of vectors 3.2 Vector addition and subtraction using components 3.3 Velocity 3.4 Acceleration 3.5 Motion in a plane with constant acceleration 3.6 Velocity is relative; reference frames Chapter 4: Force and Newton's Laws of Motion 4.1 Force 4.2 Inertia and equilibrium: Newton's first law of motion 4.3 Net force, mass, and acceleration: Newton's second law of motion 4.4 Interaction pairs: Newton's third law of motion 4.5 Gravitational forces 4.6 Contact forces 4.7 Tension 4.8 Applying Newton's second law 4.9 Reference frames 4.10 Apparent weight 4.11 Air resistance...



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