



## Enhanced College Physics, Volume 1 (with PhysicsNOW)

By Serway, Raymond A.; Faughn, Jerry S.; Vuille, Chris; Bennett, Charles A.

Brooks Cole, 2006. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Part I: MECHANICS. 1. Introduction. Standards of Length, Mass, and Time. The Building Blocks of Matter. Dimensional Analysis. Uncertainty in Measurement and Significant Figures. Conversion of Units. Estimates and Order-of-Magnitude Calculations. Coordinate Systems. Trigonometry. Problem-Solving Strategy. 2. Motion in One Dimension. Displacement. Velocity. Acceleration. Motion Diagrams. One-Dimensional Motion with Constant Acceleration. Freely-Falling Objects. 3. Vectors and Two-Dimensional Motion. Vectors and Their Properties. Components of a Vector. Displacement, Velocity and Acceleration in Two Dimensions. Motion in Two Dimensions. Relative Velocity. 4. The Laws of Motion. Forces. Newton's First Law. Newton's Second Law. Newton's Third Law. Applications of Newton's Laws. Forces of Friction. 5. Energy. Work. Kinetic Energy and the Work-Energy Theorem. Gravitational Potential Energy. Spring Potential Energy. Systems and Energy Conservation. Power. Work Done by a Varying Force. 6. Momentum and Collisions. Momentum and Impulse. Conservation of Momentum. Collisions. Glancing Collisions. Rocket Propulsion. 7. Rotational Motion and the Law of Gravity. Angular Speed and Angular Acceleration. Rotational Motion Under Constant Angular Acceleration. Relations Between Angular and Linear Quantities. Centripetal Acceleration. Newtonian Gravitation. Kepler's Laws. 8. Rotational Equilibrium and Rotational Dynamics. Torque. Torque and the...

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