



Active Learning Guide

Alan Van Heuvelen, Eugenia Etkina

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Key Benefit: Physics can be a challenging subject that is learned most effectively by experience. The critically acclaimed *Physics Active Learning Guide* has been developed specifically to help readers. A series of discovery-based activities focus on building student confidence with physics concepts and problem solving by helping connect new ideas with what readers already know and to the world around them. Readers will learn how to evaluate, draw, diagram, and graph physics concepts on their own and in collaborative groups. The analytical skills readers develop by using this *Guide* will help them succeed in their physics class and throughout their career.

Key Topics: Introduction to Motion and Forces, Kinematics, Newtonian Dynamics, Circular Motion, Impulse and Linear Momentum, Work and Energy, Static Equilibrium, Rotational Motion, Gases, Fluids at Rest, Fluids in Motion, First Law of Thermodynamics, Second Law of Thermodynamics, Electric Charge: Force and Energy, Electric Fields, DC Circuits, Magnetic Forces and Magnetic Fields, Electromagnetic Induction, Vibrations, Mechanical Waves, Reflection and Refraction, Geometrical Optics, Wave Optics

Market: Intended for those interested in learning the basics of physics

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