

This best-selling introduction to algebra-based physics goes beyond simple numerical problem solving and the application of formulas to challenge readers to explore the basic concepts that are fundamental to understanding physics and to apply physics to their everyday activities and interests (e.g., medicine, physiology, sports, and technology). Covers kinematics in one and two dimensions; vectors; dynamics; circular motion; gravitation; work and energy; linear momentum; rotational motion; bodies in equilibrium; elasticity and fracture; fluids; vibrations and waves; sound; temperature and kinetic theory; heat; and the Laws of Thermodynamics. Provides problem-solving notes; careful hints; problem-solving boxes; highlighted equations; and practice problems. Features photorealistic and 3D art to help readers visualize physics at work. For those in medical, agricultural, technology, and architectural fields needing a review of algebra-based physics.

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