



College Physics: A Strategic Approach

Randall D. Knight, Brian Jones, Stuart Field

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Building on the results of an extensive NSF-funded educational research program and detailed input from an unprecedented 4,500 students and 250 instructors, Randy Knight and Addison-Wesley published **Physics for Scientists and Engineers** in 2003. Already the most widely adopted new physics text published in more than 30 years, this book has attracted widespread critical acclaim. In **College Physics: A Strategic Approach**, Randy Knight is joined by Brian Jones and Stuart Field to carefully apply the best solutions from educational research to the algebra-based introductory physics course. Built from the ground up on a wealth of research into how readers learn physics and how they can be taught more effectively, **College Physics** leads readers to more proficient and long-lasting problem-solving skills, a deeper and better-connected understanding of the concepts, and a broader picture of the relevance of physics to the world around them. Force and Motion: Concepts of Motion and Mathematical Background, Motion in One Dimension, Vectors and Motion in Two Dimensions, Forces and Newton's Laws of Motion, Applying Newton's Laws, Circular Motion, Orbits, and Gravity, Rotational Motion, Equilibrium and Elasticity. Conservation Laws: Momentum, Energy and Work, Using Energy. Properties of Matter: Thermal Properties Of Matter, Fluids. Oscillations and Waves: Oscillations, Traveling Waves and Sound, Superposition and Standing Waves. Optics: Wave Optics, Ray Optics, Optical Instruments. Electricity And Magnetism, Electric Forces and Fields, Electrical Potential, Current and Resistance, Circuits, Magnetic Fields and Forces, Electromagnetic Induction and Electromagnetic Waves, AC Circuits. Modern Physics, Relativity, Quantum Physics, Atoms and Molecules, Nuclear Physics. For all readers interested in algebra-based college physics.

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