



Essential College Physics

Andrew Rex, Richard Wolfson

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Brief Description:

The goal of *Essential College Physics* is to provide a book focused on essential principles—a shorter, more focused book that better addresses the learning needs of today's readers while more effectively guiding them through the mastery of physics. Brevity does not need to come at the expense of reader learning.

This book is designed from the ground up to be concise and focused, resulting in a book that is less intimidating and easier to use, with well-coordinated explanations, art, worked examples, and end-of-chapter problems. It incorporates an overarching connected approach: connecting ideas within and across chapters; connecting physics with the real world; connecting words and math; and connecting with how today's readers learn and how they use their book. In addition to providing a strong foundation that teaches physics principles, the text also focuses on building readers' problem-solving skills. The friendly, integrated approach, combined with the low price, makes *Essential College Physics* an invaluable book choice.

Key Topics: Measurements in Physics, Motion in One Dimension, Motion in Two Dimensions, Force and Newton's Laws of Motion, Work and Energy, Momentum and Collisions, Oscillations, Rotational Motion, Gravitation, Solids and Fluids, Waves and Sound, Temperature, Thermal Expansion, and Ideal Gases, Heat, The Laws of Thermodynamics, Electric Charges, Forces, and Fields, Electric Energy, Potential, and Capacitors, Electric Current, Resistance, and Circuits, Magnetic Fields and Forces, Electromagnetic Induction and AC Circuits, Electromagnetic Waves and Special Relativity, Geometrical Optics, Wave Optics, Early Modern Physics, Atomic Physics, Nuclear Physics, Elementary Particles

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



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