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College Physics meets standard scope and sequence requirements for a two-semester introductory algebra-based physics course. The text is grounded in real-world examples to help students grasp fundamental physics concepts. It requires knowledge of algebra and some trigonometry, but not calculus.

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College Physics includes learning objectives, concept questions, links to labs and simulations, and ample practice opportunities for traditional physics application problems. Coverage and Scope. College Physics is organized such that topics are introduced conceptually with a steady progression to precise definitions and analytical applications.

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College Physics for AP Courses Lab Manual by OpenStax (Student Version) by OpenStax | Sep 1, ... College Physics (10th Edition) by Hugh D. Young , Philip W. Adams, et al. | Jan 9, 2015. ... Achieve for Openstax College Physics 1-term Access. by Macmillan Learning | Dec 10, 2020.

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Errata for College Physics for AP ® Courses revision CFFAC-1-000-BW (latest) Revise the second paragraph in subsection "What It Means to Do Work" as follows: "For work, in the scientific sense, to be done on an object, a force must be exerted on that object and there must be displacement of that object in the direction of the force."

The College Physics for AP(R) Courses text is designed to engage students in their exploration of physics and help them apply these concepts to the Advanced Placement(R) test. This book is Learning List-approved for AP(R) Physics courses. The text and images in this book are grayscale.

"This introductory, algebra-based, two-semester college physics book is grounded with real-world examples, illustrations, and explanations to help students grasp key, fundamental physics concepts. ... This online, fully editable and customizable title includes learning objectives, concept questions, links to labs and simulations, and ample practice opportunities to solve traditional physics application problems."--Website of book.

This text blends traditional introductory physics topics with an emphasis on human applications and an expanded coverage of modern physics topics, such as the existence of atoms and the conversion of mass into energy. Topical coverage is combined with the author's lively, conversational writing style, innovative features, the direct and clear manner of presentation, and the emphasis on problem solving and practical applications.

University Physics is designed for the two- or three-semester calculus-based physics course. The text has been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in mathematics, science, or engineering. The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency. Coverage and Scope Our University Physics textbook adheres to the scope and sequence of most two- and three-semester physics courses nationwide. We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. With this objective in mind, the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each section is to enable students not just to recognize concepts, but to work with them in ways that will be useful in later courses and future careers. The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project. VOLUME I Unit 1: Mechanics Chapter 1: Units and Measurement Chapter 2: Vectors Chapter 3: Motion Along a Straight Line Chapter 4: Motion in Two and Three Dimensions Chapter 5: Newton's Laws of Motion Chapter 6: Applications of Newton's Laws Chapter 7: Work and Kinetic Energy Chapter 8: Potential Energy and Conservation of Energy Chapter 9: Linear Momentum and Collisions Chapter 10: Fixed-Axis Rotation Chapter 11: Angular Momentum Chapter 12: Static Equilibrium and Elasticity Chapter 13: Gravitation Chapter 14: Fluid Mechanics Unit 2: Waves and Acoustics Chapter 15: Oscillations Chapter 16: Waves Chapter 17: Sound

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College Physics is the first text to use an investigative learning approach to teach introductory physics. This approach encourages you to take an active role in learning physics, to practice scientific skills such as observing, analyzing, and testing, and to build scientific habits of mind. The authors believe students learn physics best by doing physics.

The main objectives of this introductory physics book are twofold: to provide the student with a clear and logical presentation of the basic concepts and principles of physics, and to strengthen an understanding of the concepts and principles through a broad range of interesting applications to the real world. In order to meet these objectives, emphasis is placed on sound physical arguments and discussions of everyday experiences and observations. At the same time, we motivate the student through practical examples that demonstrate the role of physics in other disciplines. The sixth edition features new pedagogy in keeping with the findings in physics education research. The rich new pedagogy has been integrated within the framework of an established and reliable text, facilitating its use by instructors. The full COLLEGE PHYSICS text, which covers the standard topics in classical physics and 20th century physics, is divided into six parts. COLLEGE PHYSICS, VOLUME 2 covers three of those six parts, including electricity and magnetism (Part IV); properties of light and the field of geometric and wave optics (Part V); and an introduction to special relativity, quantum physics, and atomic and nuclear physics (Part VI).

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College Physics for the AP® Physics 1 Course is the first textbook to integrate AP® skill-building and exam prep into a comprehensive college-level textbook, providing students and teachers with the resources they need to be successful in AP® Physics 1. Throughout the textbook you'll find AP Exam Tips, AP® practice problems, and complete AP® Practice Exams, with each section of the textbook offering a unique skill-building approach. Strong media offerings include online homework with built-in tutorials to provide just-in- time feedback. College Physics provides students with the support they need to be successful on the AP® exam and in the college classroom.