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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 Page 18/65

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. Page 19/65

"YOU HAVE CHANGED MY LIFE" is a common refrain in the emails Walter Lewin receives daily from fans who have been enthralled by his worldfamous video lectures about the wonders of physics. "I Page 20/65

walk with a new spring in my step and I look at life through physics-colored eyes," wrote one such fan. When Lewin's lectures were made available online, he became an instant YouTube celebrity, and The New York Page 21/65

Times declared, "Walter Lewin delivers his lectures with the panache of Julia Child bringing French cooking to amateurs and the zany theatricality of YouTube's greatest hits." For more than thirty years Page 22/65

as a beloved professor at the Massachusetts Institute of Technology, Lewin honed his singular craft of making physics not only accessible but truly fun, whether putting his head in the path of a wrecking ball, Page 23/65

supercharging himself with three hundred thousand volts of electricity, or demonstrating why the sky is blue and why clouds are white. Now, as Carl Sagan did for astronomy and Brian Green did for cosmology, Page 24/65

Lewin takes readers on a marvelous journey in For the Love of Physics, opening our eyes as never before to the amazing beauty and power with which physics can reveal the hidden workings of the world all around us. Page 25/65

"I introduce people to their own world, " writes Lewin, "the world they live in and are familiar with but don't approach like a physicist-yet." Could it be true that we are shorter standing up than lying down? Page 26/65

Why can we snorkel no deeper than about one foot below the surface? Why are the colors of a rainbow always in the same order, and would it be possible to put our hand out and touch one? Whether introducing why the Page 27/65

air smells so fresh after a lightning storm, why we briefly lose (and gain) weight when we ride in an elevator, or what the big bang would have sounded like had anyone existed to hear it, Lewin never ceases to Page 28/65

surprise and delight with the extraordinary ability of physics to answer even the most elusive questions. Recounting his own exciting discoveries as a pioneer in the field of X-ray astronomy-arriving at MIT Page 29/65

right at the start of an astonishing revolution in astronomy-he also brings to life the power of physics to reach into the vastness of space and unveil exotic uncharted territories, from the marvels of a supernova Page 30/65

explosion in the Large Magellanic Cloud to the unseeable depths of black holes. "For me," Lewin writes, "physics is a way of seeing-the spectacular and the mundane, the immense and the minute—as a beautiful, Page 31/65

thrillingly interwoven whole." His wonderfully inventive and vivid ways of introducing us to the revelations of physics impart to us a new appreciation of the remarkable beauty and Page 32/65

intricate harmonies of the forces that govern our lives.

Isaac Newton's The
Mathematical Principles of
Natural Philosophy
translated by Andrew Motte
Page 33/65

and published in two volumes in 1729 remains the first and only translation of Newton's Philosophia naturalis principia mathematica, which was first published in London in 1687. As the most famous work in Page 34/65

the history of the physical sciences there is little need to summarize the contents.--J. Norman, 2006.

University Physics is designed for the two- or three-semester calculusPage 35/65

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 Page 36/65

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 Page 37/65

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 Page 38/65

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 Page 39/65

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 Page 40/65

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. Page 41/65

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: Page 42/65

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 Page 43/65

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: Page 44/65

Gravitation Chapter 14: Fluid Mechanics Unit 2: Waves and Acoustics Chapter 15: Oscillations Chapter 16: Waves Chapter 17: Sound

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within the product description or the product text may not be available in the ebook version.

The undergraduate years are Page 50/65

a turning point in producing scientifically literate citizens and future scientists and engineers. Evidence from research about how students learn science and engineering shows that teaching strategies that Page 51/65

motivate and engage students will improve their learning. So how do students best learn science and engineering? Are there ways of thinking that hinder or help their learning process? Which teaching strategies Page 52/65

are most effective in developing their knowledge and skills? And how can practitioners apply these strategies to their own courses or suggest new approaches within their departments or institutions? Page 53/65

"Reaching Students" strives to answer these questions. "Reaching Students" presents the best thinking to date on teaching and learning undergraduate science and engineering. Focusing on the disciplines of astronomy, Page 54/65

biology, chemistry, engineering, geosciences, and physics, this book is an introduction to strategies to try in your classroom or institution. Concrete examples and case studies illustrate how experienced Page 55/65

instructors and leaders have applied evidence-based approaches to address student needs, encouraged the use of effective techniques within a department or an institution, and addressed Page 56/65

the challenges that arose along the way. The researchbased strategies in "Reaching Students" can be adopted or adapted by instructors and leaders in all types of public or private higher education Page 57/65

institutions. They are designed to work in introductory and upper-level courses, small and large classes, lectures and labs, and courses for majors and non-majors. And these approaches are feasible for Page 58/65

practitioners of all experience levels who are open to incorporating ideas from research and reflecting on their teaching practices. This book is an essential resource for enriching instruction and better Page 59/65

educating students.

The standards-based lessons in this slim volume serve as an introduction to environmental science for young learners. Hop Into Action helps teach children Page 60/65

about the joy of amphibians through investigations that involve scientific inquiry and knowledge building. Twenty hands-on learning lessons can be used individually or as a yearlong curriculum. Each Page 61/65

lesson is accompanied by detailed objectives, materials lists, background information, step-by-step procedures, evaluation questions, assessment methods, and additional web resources. The activities Page 62/65

can be integrated into other disciplines such as language arts, physical education, art, and math and are adaptable to informal learning environments. --from publisher description.

Page 63/65

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. Page 64/65

This book is Learning Listapproved for AP(R) Physics courses. The text and images in this book are grayscale.

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