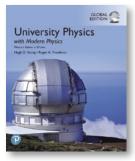
Physics

Calculus-Based Physics



University Physics with Modern Physics, 15e

Hugh D. Young & Roger A. Freedman

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Course: Calculus-Based Physics

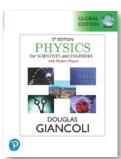
The 15th Edition of *University Physics with Modern Physics*, now in SI Units, draws on insights from several users to help students see patterns and make connections between problem types. Students learn to recognize when to use similar steps in solving the same problem type and develop an understanding for problem solving approaches, rather than simply plugging values into an equation. Includes new features designed to address students' tendency to focus on the objects and situations posed in a problem, rather than recognizing the underlying principle or the problem type.



Principles & Practice of Physics, 2e

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Physics for Scientists & Engineers with Modern Physics, 5e Douglas C. Giancoli

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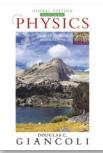
Course: Calculus-Based Physics

Principles and Practice of Physics establishes an understanding of physics that is thorough and accessible. The author's peer-to-peer instruction techniques incorporate insights supported by physics education research to help students develop a true conceptual understanding alongside the quantitative skills needed in the course. The material emphasizes core unifying ideas with the first half of each chapter teaching the ideas using words and images – not mathematics. The second half of each chapter casts the ideas into quantitative and symbolic form.

Course: Calculus-Based Physics

Physics for Scientists and Engineers offers a clear and direct narrative with applications that draw the student into the physics at hand – covering the basic concepts of physics in all its aspects, from mechanics to modern physics. Each topic begins with concrete observations and experiences that students can relate to their everyday lives and future professions, and then moves to more formal aspects of physics to show why we believe what we believe. This edition presents a wide range of new applications including the physics of digital and added approaches for practical problem-solving techniques.

Algebra-Based Physics



Physics: Principles with Applications, 7e Douglas C. Giancoli

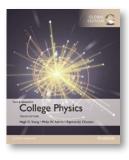
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Course: Algebra-Based Physics

Giancoli's text is a trusted classic, known for its elegant writing, clear presentation and quality of content. Using concrete observations and experiences students can relate to, the text features an approach that reflects how science is actually practiced: it starts with the specifics, then moves to the great generalizations and the more formal aspects of a topic to show students why we believe what we believe.

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College Physics, 10e

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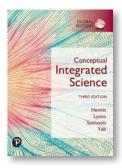
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Course: Algebra-Based Physics

For more than five decades, *College Physics* has provided the most reliable foundation of physics education for students around the world. New coauthors Phil Adams and Ray Chastain thoroughly revised the Tenth Edition by incorporating the latest methods from educational research. New features help students develop greater confidence in solving problems, deepen conceptual understanding and strengthen quantitative-reasoning skills, while helping them connect what they learn with their other courses and the changing world around them.

Basic Physics



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Paul G. Hewitt, Suzanne A. Lyons, John A. Suchocki & Jennifer Yeh

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This text offers an engaging overview of physics, chemistry, earth science, astronomy and biology at a level appropriate for non-science students. Hewitt's engaging narrative emphasizes unifying concepts across physical and life sciences in a clear, friendly writing style with fun, relevant examples. The 3rd Edition expands on the theme of integration, deepening connections between the sciences with Integrated Science spreads. Updated Technology boxes feature modern references and contemporary applications add relevance to help students connect science with their everyday lives.

PHYSICS

Advanced Physics – Mechanics and Thermodynamics



Classical Mechanics, 3e Herbert Goldstein, Charles P. Poole

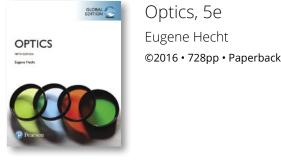
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Advanced Physics – Modern Physics



Modern Physics, 2e

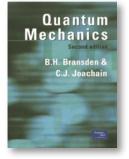
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Course: Modern Physics

Modern Physics provides a clear, precise and contemporary introduction to the theory, experiment and applications of modern physics. Ideal for both physics majors and engineers. Pedagogical features throughout the text focus the reader on the core concepts and theories while offering optional, more advanced sections, examples and cutting-edge applications to suit a variety of students and courses. Critically acclaimed for his lucid style, in the Second Edition, Randy Harris applies the same insights into recent developments in physics, engineering and technology.

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Course: Quantum Mechanics

A core text in quantum mechanics for students of physics at the undergraduate level. It gives a modern, comprehensive introduction to the principles of quantum mechanics, to the main approximation methods and to the application of quantum theory to a wide variety of systems. The needs of students having an average mathematical ability are kept very much in mind, with the avoidance of complex mathematical arguments and any undue compression of material. The text is illuminated throughout by careful explanation and physical insight. Problem sets, covering all the main topics, reinforce the student's understanding and act as a guide to progress.

Mathematical / Computational Physics



Fundamentals of Complex Analysis with Applications to Engineering, Science and Mathematics, 3e

Edward B. Saff & Arthur David Snider ©2013 • 520pp • Paperback

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Course: Mathematical Physics

This is the best seller for this course. It provides a comprehensive introduction to complex variable theory and its applications to current engineering problems. It is designed to make the fundamentals of the subject more easily accessible to students who have little inclination to wade through the rigors of the axiomatic approach. Modeled after standard calculus books – both in level of exposition and layout – it incorporates physical applications throughout the presentation, so that the mathematical methodology appears less sterile to engineering students.