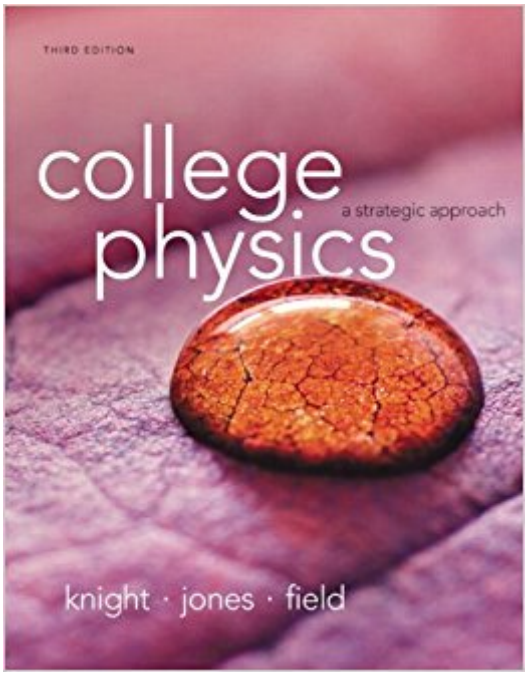
College Physics: A Strategic Approach (3rd Edition)



Synopsis

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Customer Reviews

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. 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. --This text refers to an out of print or unavailable edition of this title.

Randy Knight has taught introductory physics for 32 years at Ohio State University and California Polytechnic University, where he is Professor Emeritus of Physics. Randy received a Ph.D. in physics from the University of CaliforniaÃ¢â ¬â œBerkeley. He was a post-doctoral fellow at the Harvard-Smithsonian Center for Astrophysics before joining the faculty at Ohio State University. It was at Ohio State, under the mentorship of Professor Leonard Jossem, that he began to learn about the research in physics education that, many years later, led to Five Easy Lessons: Strategies for Successful Physics Teaching, Physics for Scientists and Engineers: A Strategic Approach, and now to this book. RandyÃ¢â ¬â„¢s research interests are in the fields of lasers, spectroscopy, and

environmental science. When heÃ¢â ¬â„¢s not in front of a computer, you can find Randy hiking, sea kayaking, playing the piano, or spending time with his wife Sally and their six cats.Ã Â Ã Â Brian JonesÃ Â has won several teaching awards at Colorado State University during his 25 years teaching in the Department of Physics. His teaching focus in recent years has been the College Physics class, including writing problems for the MCAT exam and helping students review for this test. In 2011, Brian was awarded the Robert A. Millikan Medal of the American Association of Physics Teachers for his work as director of the Little Shop of Physics, a hands-on science outreach program. He is actively exploring the effectiveness of methods of informal science education and how to extend these lessons to the college classroom. Brian has been invited to give workshops on techniques of science instruction throughout the United States and in Belize, Chile, Ethiopia, Azerbaijan, Mexico, and Slovenia. Brian and his wife Carol have dozens of fruit trees and bushes in their yard, including an apple tree that was propagated from a tree in Isaac NewtonÃ¢â ¬â„¢s garden. Ã Â Stuart Field has been interested in science and technology his whole life. While in school he built telescopes, electronic circuits, and computers. After attending Stanford University, he earned a Ph.D. at the University of Chicago, where he studied the properties of materials at ultralow temperatures. After completing a postdoctoral position at the Massachusetts Institute of Technology, he held a faculty position at the University of Michigan. Currently at Colorado State University, Stuart teaches a variety of physics courses, including algebra-based introductory physics, and was an early and enthusiastic adopter of KnightÃ¢â ¬â„¢s Physics for Scientists and Engineers. Stuart maintains an active research program in the area of superconductivity. Stuart enjoys Colorado's great outdoors, where he is an avid mountain biker; he also plays in local ice hockey leagues. Ã Â

College Physics by Knight does a fantastic job of putting complicated physics concepts to elegant explanation and diagrams. The organization and consistency of throughout the book made learning predictable and thus easy to follow. The practice questions at the end of each chapter are of a wide range of difficulties, providing practice for all phases of learning.Some of the practice questions assumed values that were mentioned in the associated chapter (ex. specific index of refraction for glass) but not in the problem itself, which made finding the solution more difficult. It would be helpful if all of the values required for solving the problem were given in the question, as on an exam.Overall, this textbook has been greatly beneficial in my understanding of physics. I’ve had the unfortunate luck of getting some pretty terrible physics lecturers, I owe my success in physics to Knight!

I wish I had seen the reviews (there's another entry for this same edition) before I bought this. This "solutions" manual only contains about 1/5 of the solutions of problems from the workbook. Basically no point to spending the money at all. Also, the workbook and solutions are broken into two volumes for no reason other than to gouge students. If you need help with physics, this is not it.

While this book was required for a course I took, I still think I would purchase/rent a different text for the same class if I had to do it over. It explained things well enough, but I've read better physics text books. I was constantly referring to my older texts and also Physics Work Books (supplementary to course work) in order to fully understand a given concept. Science writing doesn't have to be difficult to digest, and this book was on the verge of being vague and not offering enough detail to answer all of my questions.

I bought this book for my phys I class and although my teacher sucked balls this book was extremely helpful and unlike most text books it explains the topics fairly well giving relevant examples. plus the price was great for a new edition of the book. I recommend it.

Good alternative if you need the newer version for your Physics lecture. This copy served me just fine with no issues at all so save money and get this instead! Since its Volume 2, it only covers Physics 2 so keep that in mind.

This textbook does a really good job at walking students through the problem solving process of more complicated topic areas. This book was my saving grace for not only my university's physics course, but my MCAT course as well. Each concept is explicitly stated, along with its associated formula, making it easy to skim through chapters for reviews during finals.

It's useful to have the textbook online where I can carry my tablet easy. I also use it whenever I need it for my homework online.

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