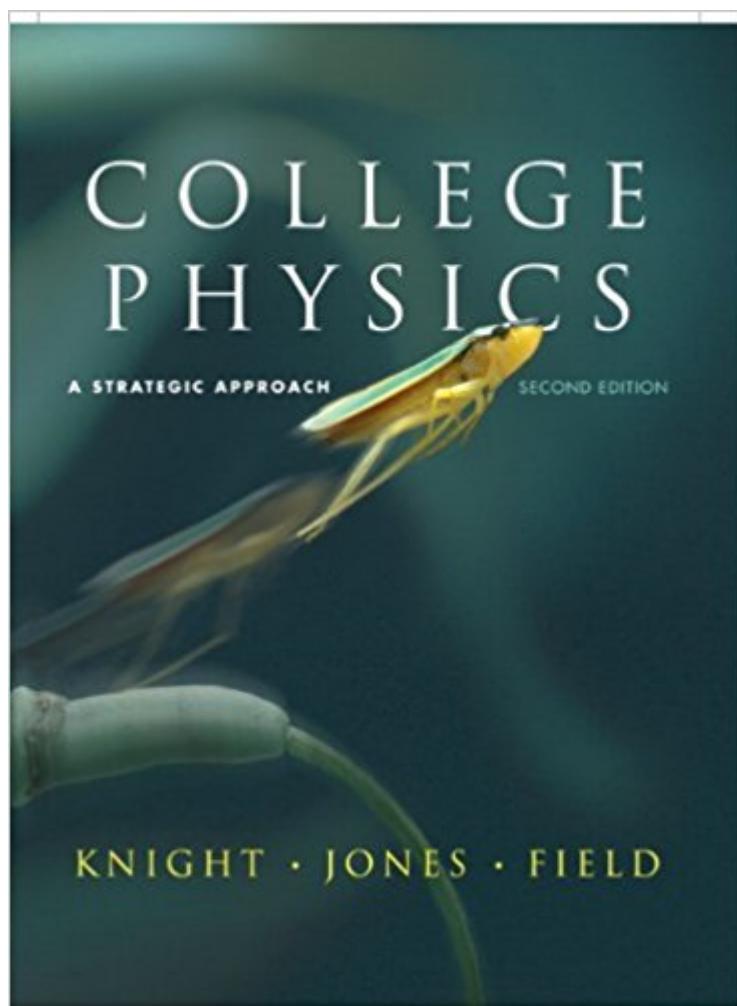


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# College Physics: A Strategic Approach (2nd Edition)



## Synopsis

This package contains the following components: -0321595483: College Physics: A Strategic Approach with MasteringPhysics® -0321556259: Get Ready for Physics --This text refers to an out of print or unavailable edition of this title.

## Book Information

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## Customer Reviews

**Key Message:** Building on the research-proven instructional techniques introduced in Knight's "Physics for Scientists and Engineers," "the most widely adopted new physics book in more than 30 years," "College Physics: A Strategic Approach" set a new standard for algebra-based introductory physics—gaining widespread critical acclaim from professors and readers alike. For the Second Edition, Randy Knight, Brian Jones, and Stuart Field continue to apply the best results from educational research, and refine and tailor them for this course and the particular needs of its readers. New pedagogical features (Chapter Previews, Integrated Examples, and Part Summary problems) and fine-tuned and streamlined content take the hallmarks of the First Edition—exceptionally effective conceptual explanation and problem-solving instruction—to a new level. More than any other book, "College Physics" leads readers to 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 their chosen career and the world around them. "College Physics," Second Edition is accompanied by MasteringPhysics™—the most advanced, educationally effective, and widely used online physics tutorial and homework system in the world.

**Key Topics:** Representing Motion, Motion in One Dimension, Vectors and Motion In Two Dimensions, Forces and Newton's Laws of Motion, Applying Newton's Laws, Circular Motion,

Orbits, and Gravity, Rotational Motion, Equilibrium and Elasticity, Momentum, Energy and Work, Using Energy, Thermal Properties of Matter, Fluids, Oscillations, Traveling Waves and Sound, Superposition and Standing Waves, Wave Optics, Ray Optics, Optical Instruments, Electric Forces and Fields, Electrical Potential, Current and Resistance, Circuits, Magnetic Fields and Forces, Electromagnetic Induction and Electromagnetic Waves, AC Circuits, Relativity, Quantum Physics, Atoms and Molecules, Nuclear Physics Market: Intended for those interested in gaining a basic knowledge of college physics --This text refers to an out of print or unavailable edition of this title.

Randy Knight has taught introductory physics for 25 years at Ohio State University and California Polytechnic University, where he is currently Professor of Physics and Director of the Minor in Environmental Studies. Randy received a Ph.D. in physics from the University of California, Berkeley and 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 and this book. Randy's research interests are in the field of lasers and spectroscopy. When he's not in the classroom or in front of a computer, you can find Randy hiking, sea kayaking, playing the piano, or spending time with his wife Sally and their seven cats. --This text refers to an out of print or unavailable edition of this title.

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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