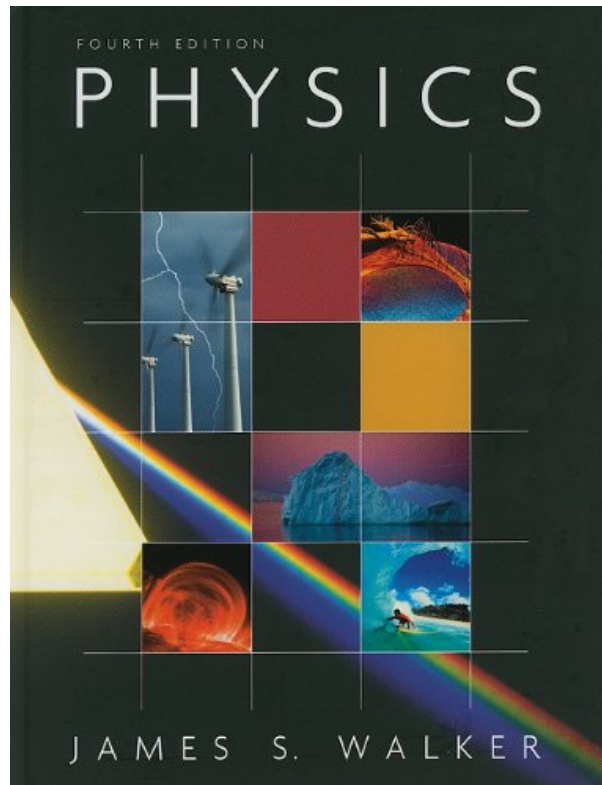
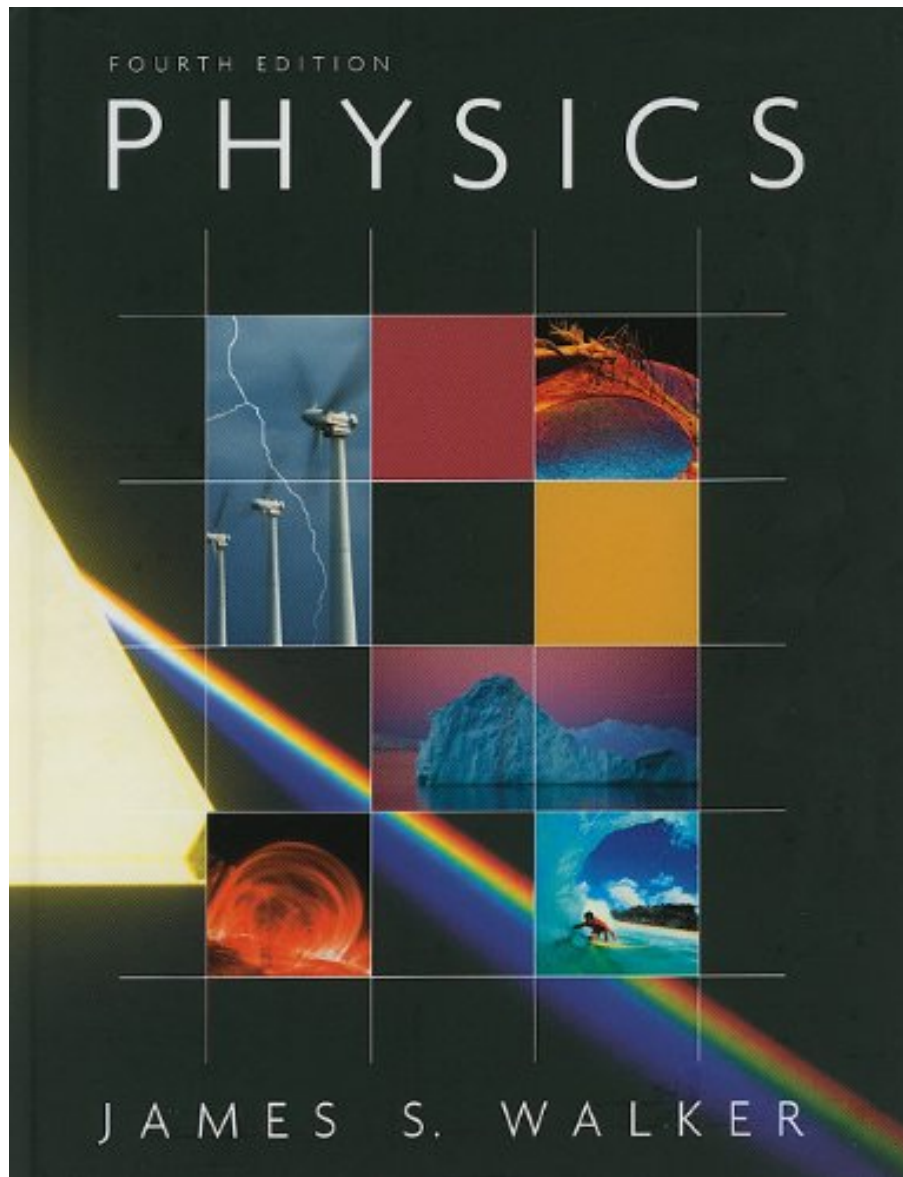


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About the Author

Jim Walker holds a PhD in theoretical physics from the University of Washington. He served as a post-doc at the University of Pennsylvania, the Massachusetts Institute of Technology, and the University of San Diego. In recognition of his contributions to the teaching of physics, Jim was named the Boeing Distinguished Professor of Science and Mathematics Education for 2001-2003. He currently teaches at Western Washington University.

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17 of 18 people found the following review helpful.

Not helpful for students who do not easily and quickly grasp physics.

By brandon bianchini

This is one of the worst textbooks I've ever used. The example problems are very confusing. They do not reference material from earlier chapters so it's easy to get lost in the reasoning behind solving the problem. The actual chapters themselves do very little to explain physics to someone who doesn't easily grasp it. The end of chapter problems also expect you to be gifted in theoretical physics rather than providing building blocks and stepping stones to truly comprehending the material.

3 of 3 people found the following review helpful.

Physics textbook with generally clear explanations and relevant real-world applications- much better than Giancoli's text

By N. Raju

As a post-bac student at a local public university, I found this text very helpful in understanding the principles and developing my problem-solving techniques in the second-semester of the algebra-based physics sequence. We had reading quizzes, so I read every chapter that corresponded to the course (chapters 16-30) and thus have much familiarity with the textbook. Walker generally presented clear, in-depth explanations for non-physics majors and provided a variety of worked example problems throughout each chapter. Some reviewers complained that he does not provide enough worked-examples, but you can't expect the author to show how to do every single type of physics problem encountered- the book would be too cumbersome and would defeat the problem-solving nature of physics.

What I appreciated most, however, were the multitude of real-world applications interwoven throughout each chapter. The author eloquently connected the concepts presented to a diverse array of real-world objects and phenomena, such as bimetallic strips (heat), countercurrent exchange in the body (conduction), diesel engines (thermodynamics), printers (electrostatics), keyboards (capacitance), credit card readers (magnetic flux), rainbows (light), CD players (interference), just to name a few. This motivated me tremendously to learn the material, as I realized that all of it relates to our everyday life.

I also found the chapter summaries and conceptual questions at the end of each chapter valuable for testing my understanding. Our class required Mastering Physics, which is an online platform that assigned the same problems as those at the end of each chapter. Walker provided a large variety of problems of easy, medium, and hard difficulty (indicated by the number of dots next to each problem), and doing a large variety of problems was absolutely crucial with developing my confidence in the material. Some of the problems were quite fun, as they related the physics principle to an everyday application. There were some mediocre problems in each chapter, but in my opinion, these were few and far between.

The only issue I had with this text was that some of the sections were not clearly written and thus presented formulas and examples in a confusing way, such as chapter 28 regarding interference. Overall though, I found this text much superior to Giancoli's algebra-based text that I used in AP Physics B in high school; Walker's text gave more concise explanations, more worked-out examples, more diagrams/figures to illustrate the concepts, better homework problems, and more real-world applications. It also appears to be better than Cutnell and Johnson's text too. I highly recommend this text for an introductory physics course and for developing an appreciation of physics that is constantly at work in our daily lives.

6 of 6 people found the following review helpful.

The best Physics text I've ever had.

By Kenji Yamasaki

I'm a Physics major, and, although this is an algebra-based book, I still learned the most from this. It is the first Physics book I reach for when something needs clarification or I need to look up a formula. Walker's illustrations and explanations are clear and concise (with a few exceptions), and he covers almost every topic in Physics.

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Work and Kinetic Energy
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Gravity
Oscillations About Equilibrium
Waves and Sound
Fluids
Temperature and Heat
Phases and Phase Changes
The Laws of Thermodynamics

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