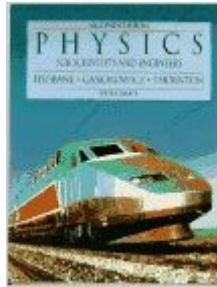




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Physics For Scientists And Engineers: Extended Version, Vol. 1, 2nd Edition



Synopsis

Appropriate for any introductory calculus-based physics course. Fishbane/Gasiorowicz/Thornton is a comprehensive introduction to calculus-based physics. The most successful first-edition physics text of the last decade, it is the only book written specifically to address the main issue in this course--namely, balancing the needs and wants of the students with those of the instructor. The authors, experienced researchers and teachers, represent both theoretical and experimental physicists. This text presents balance between theory and applications, between concepts and problem-solving, between mathematics and physics, and finally, between technology and traditional pedagogical methods. Appropriate for both scientists and engineers with increased applications for engineering students.

Book Information

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Customer Reviews

Appropriate for both scientists and engineers. A comprehensive introduction to calculus-based physics which presents balance between theory and applications, between concepts and problem-solving, between mathematics and physics, and finally, between technology and traditional pedagogical methods. Maintains theoretical coverage, but supplements it with applications boxes, on topics such as: timed traffic lights, jet engines, simple machines, drag racing, flight navigator, cranes, quartz watches, smoke detectors, capacitors as power sources for laptop computers, television antennas, and fiber optics. Places emphasis on concepts, showing the motivation for the physics. This conceptual emphasis has been maintained, but supporting problem-solving apparatus has been dramatically revised. All mathematics in the book is self-contained, and major

mathematical tools are introduced as needed. Vectors, a topic that requires a lot of practice, are covered in depth.

Very good for the basic +

An outstanding book! Although I've only read about half of it, I've been thoroughly impressed with each and every chapter. The authors don't just tell "what", they tell "why", the latter often constituting the greater part of any discussion. Every significant equation, concept, or what have you, is fully derived and explained, usually along with a brief history of each. Rich in theory, the content is engaging, and should please those with even the most insatiable curiosities about physics. What strikes me most, though, is the authors' obvious enjoyment of and devotion to the subject. It became pretty evident to me after just a few pages. I do, however, sympathize with other readers' criticisms of the end-of-the-chapter exercises; they are often far more difficult than any of the examples in the chapter, and on more than one occasion I've had to run screaming to my professor for help. A good working knowledge of calculus is absolutely essential to solving most of these problems. But I have to say, after solving nearly two hundred of them, my understanding of the subject has improved tremendously. In short, the problems themselves are excellent, despite being of a slightly higher caliber than the chapter prepares you for. I strongly recommend this book to those who desire a solid understanding of physics, as well as to those who enjoy studying physics just for the sake of studying physics. Though not perfect, it's an excellent guide to a most difficult subject.

I'm so surprised to hear that nobody likes this book. This is the best physics text I've ever read. I thoroughly enjoyed studying it. Using this book, I was able to gain an exceptional knowledge of introductory physics. Of course, it took a long time. I did not receive any formal instruction on this book, but I studied it alone for four hours a day for weeks in order to fully understand its content. In fact, this is probably why all those college students posted poor reviews of the book. IT WAS TOO DIFFICULT FOR THEM! The bottom line is, if you want to understand EVERY facet of introductory physics, buy this book and study it. If you are looking for just a mediocre knowledge of physics, then this text is not for you. It will drive you crazy, and you will hate it. It has great examples, great illustrations, and great instruction. They cover everything. My only criticism is this: I wish they had included solutions to both odd and even numbered problems in the back. They only have the odd numbered problems' solutions. Other than that, excellent text!

I'm not surprised that so many angry readers (mostly 1st year undergrads, I suspect) wrote bad reviews about this book. Physics is hard. I know that it may seem like a cruel awakening from the sleepy years of high school, but it's true. The things that you really need to know in order to actually do things (do calculations, predict events, design things, etc.) require nit-picky attention to detail. This book provides just that. The information is presented in the best possible manner I can think of, and the writing is excellent. If you're planning to be a physics major, just wait until you move on to the higher level books. They'll seem like nightmares compared to this book. As a note, if you haven't taken Calculus (usually three semesters worth), this book will be very difficult for you. Make sure that you first take the Calculus! It will make the book fun to read. If you don't you'll probably write similar reviews to those previously written.

I am an Electronics Engineering student and was very dissatisfied with this text. The chapters were written well and were not too hard to understand, but the examples and questions at the end of the chapters were often totally unrelated to the readings. I often found myself very confused and frequently wondered what the author was thinking when he wrote this book. It was even more frustrating to find that the professor couldn't even explain many of the questions at the end of the chapters. This book is not a helpful means of learning physics and should be avoided at all costs if possible.

This book is bad. I mean really bad. My IQ has gone down significantly after two long, torturous semesters using this book. When I was in high school, physics was a reasonably enjoyable experience. Now, I would rather ingest a suppository than read this book. If any poor student is required to use this book, then I would make sure that he already has an Einstein-ish knowledge of the subject.

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