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Physics For Scientists And Engineers: Extended Version



Synopsis

An introductory textbook for a calculus based physics course, typically for first- or second-year undergraduates who are prospective engineers, scientists, physicians, or who otherwise anticipate using technology in their careers. The prerequisite is a previous or concurrent course in calculus.

The

Book Information

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Customer Reviews

I tutor high school students and purchase the text books their teachers are using so that I can point to chapters the students can use. A more recent version of this book was used by Naperville North HighSchool. My rating is based on the suitability of this text if used by high school teachers teaching AP Physics C. This is likely not the target use intended by the authors-- but university professors selecting books for their own needs don't need my review. As such, I am writing a review for students and parents who are currently unfamiliar with physics and are interested in a resource that might help them achieve their goals. With that in mind, when writing I bear in mind this notion: The learning goals for those taking a course to called "AP Physics C" should be both to prepare students to pass the test and to have a foundation for higher level classes in engineering and physics bearing in mind students will get further exposure in later courses. For those purposes the text is mediocre with some positives and some negatives. My view is other available books are more suitable. That said: any book is better than no book-- which I mention only because "no book" seems to be a trend in high schools.(Note: this book is definitely not suitable for AP Physics I because AP Physics I is algebra based.)The actual review follows:On the positive side: The text does contain the necessary

material to cover the syllabus for AP Physics C. For this purpose, the useful chapters are 1-13 for mechanics and 21-33 for EM. The student will be able to find examples and discussions of all relevant topics. So it is not a waste. As a general book to have on the shelf, it's also useful (though no better than other books).

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