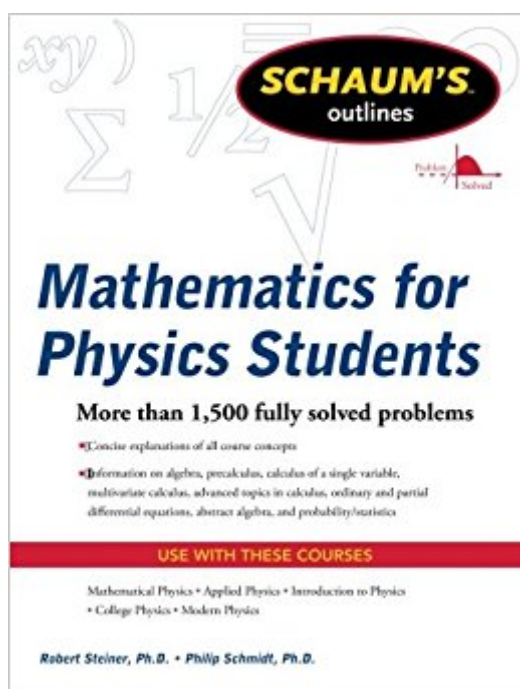The book was found

Schaum's Outline Of Mathematics For Physics Students (Schaum's Outlines)

Synopsis

The ideal review for your physics course More than 40 million students have trusted SchaumÃ¢ ¬â„¢s Outlines for their expert knowledge and helpful solved problems. Written by renowned experts in their respective fields, SchaumÃ¢ ¬â„¢s Outlines cover everything from math to science, nursing to language. The main feature for all these books is the solved problems. Step-by-step, authors walk readers through coming up with solutions to exercises in their topic of choice.   A quick, easy-to-follow guide to mathematical topics required for important concept development in physics More than 1,500 fully-solved problems presented from both the physics and mathematics point-of-view Hundreds more practice problems

Book Information

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Customer Reviews

Robert Steiner serves as the project director of seminars on science at the American Museum of Natural History, and an adjunct assistant professor in the Department of Mathematics, Science and Technology at the Teachers College of Columbia University. Phillip A. Schmidt is currently the program coordinator for secondary education at The Teachers College of Western Governors University. He is also the coauthor of Schaum's Outline of College Mathematics, Schaum's Outline of Elementary Algebra, and author of Schaum's Outline of Geometry.

A very good reference book. Great examples and well explained.

I recommend

I'm a physicist and am 1/3 of the way through this text. I am puzzled about the subject choices and have found many errors. The book must not have been proofread by someone that understood the math or, alternatively, did not calculate each and every assertion in the text and problems. In the section on zeros of polynomials, for example, the text makes a claim about zeros of f(x) and about f(-x), but the the signs are interchanged. What is more important is that various portions of text are stated imprecisely, so I don't see how someone could really apply what is being stated.I think the book is trying to fill an important niche. Many people stumble in physics because of basic math. This book is worth updating after a careful review and edit. An update might spend more time on trig (identities) and less time on polynomial roots or families of circles.

This book is a pretty good review of undergraduate college mathematics through differential equations. It stays on a pretty elementary level. Two-thirds of the book is dedicated to precalculus topics and calculus involving single variable functions. The last section of the book squeezes multi-variable calculus, differential equations, and even vector calculus into just a few chapters. The problems are unique - they are pretty useful at showing how you use the various types of math reviewed to work some physics problems. However, if you are looking for a more advanced math tutorial aimed at physics students I suggest "The Mathematics of Classical and Quantum Physics" by Byron. That book includes discussions and problems on the theory of vector spaces, analytic function theory, Green's function method of solving ODE's and PDE's, and the theory of groups. Plus the price is low at between ten and twenty dollars depending on whether you get it used or new, making it comparable in price to this book. However, if you feel you are not up to conquering Byron's book, this outline would be an excellent warm-up for it. The following is the table of contents for this Schaum's outline, since at the time I am writing this the contents are not yet shown.Part I: Algebra and GeometryChapter 1: Introduction to AlgebraChapter 2: FunctionsChapter 3: Graphs of FunctionsChapter 4: Linear EquationsChapter 5: Simultaneous Linear EquationsChapter 6: Quadratic Functions and EquationsChapter 7: InequalitiesChapter 8: The Locus of an EquationChapter 9: The Straight LineChapter 10: Families of Straight LinesChapter 11: The CirclePart II: Pre-Calculus and Elementary CalculusChapter 12: Rational and Polynomial FunctionsChapter 13: Trigonometric FunctionsChapter 14: Exponential and Logarithmic FunctionsChapter 15: Complex NumbersChapter 16: The Calculus of Single-Variable Functions: A Mathematical ApproachChapter 17: The Calculus of Single-Variable Functions: A Physics

First, please note that I am giving this five stars because Schaum's is first rate, they are miles ahead of everyone in this category of books. I have not seen THIS book, only the other eighteen or nineteen volumes of Schaum's I own.It seems that McGraw-Hill has dropped the ball big time. needs to clean up this particular item and how it's listed.In 2007 the published a 1st edition "Schaum's Outline of Mathematics for Physics Students".In 2011 they RE-published another 1st edition with exactly the same title, and the same authors.It is in fact two different books, with exactly the same title, and exactly the same authors.Is the 2011 edition any good? No one has reviewed IT yet. The only reviews were written in 2007.Be sure to check the covers & copyright dates. That's the best way to tell the difference.

This book is rife with mathematical errors, both in the text and in the solved problems or their answers. I skipped over many of the problems in the first half of the book and still encountered an error every few pages. In the second half of the book, there are many parts that have a mathematical error on every page, sometimes more than one error per page. If you already know the math you can spot the errors, but if you haven't already taken classes in the math this book is about, it will lead you astray and confuse you badly. Most of the errors are in the answers to problems, and if you can use Maple or Mathematica you can find out the correct answer, though it's a terrific waste of time. But there are also serious factual (mathematical) errors in the text itself. These are probably typos; there are other errors and style inconsistencies that make me think the book has not been proofread even cursorily.I emailed McGraw-Hill about this. When I first wrote this review, I had not received a reply from them after waiting almost two weeks. However, after 2 1/2 weeks, I did receive a reply from an editor apologizing, informing me that they were going to contact the authors to "rectify every error" for the next reprint, offering a refund of my purchase price, and thanking me for informing them.Better late than never, and I'm much more inclined to consider

Schaum books in the future now. If I eventually find a newer printing on the shelves, I'll check a few of the errors I know about and update this review as to whether they were corrected.

I'm a freshman collage student who has returned to school after nearly 20 years. These books have made all the difference in my physics and calculus classes.

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