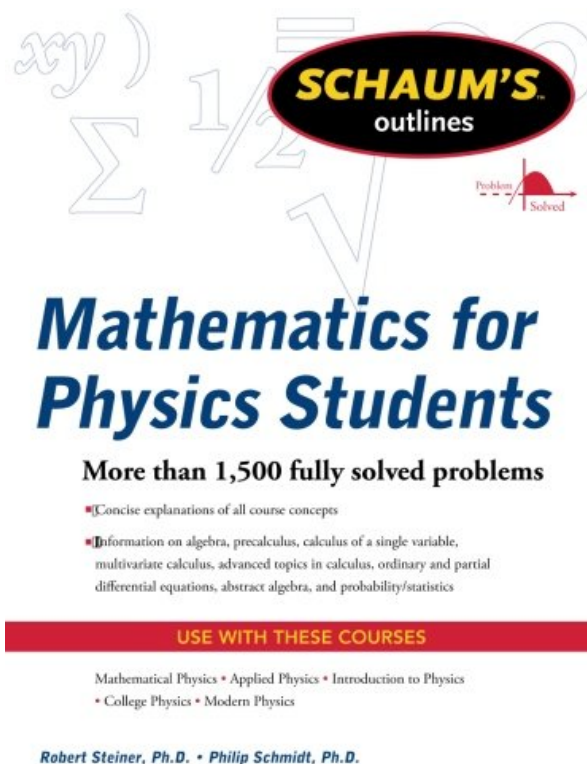


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About the Author

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.

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About the Author

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Full of errors

By Amazon Customer

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.

17 of 18 people found the following review helpful.

Useful for brushing up on undergrad math only

By calvinme

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 Geometry

Chapter 1: Introduction to Algebra

Chapter 2: Functions

Chapter 3: Graphs of Functions

Chapter 4: Linear Equations

Chapter 5: Simultaneous Linear Equations

Chapter 6: Quadratic Functions and Equations

Chapter 7: Inequalities

Chapter 8: The Locus of an Equation

Chapter 9: The Straight Line

Chapter 10: Families of Straight Lines

Chapter 11: The Circle

Part II: Pre-Calculus and Elementary Calculus

Chapter 12: Rational and Polynomial Functions

Chapter 13: Trigonometric Functions
Chapter 14: Exponential and Logarithmic Functions
Chapter 15: Complex Numbers
Chapter 16: The Calculus of Single-Variable Functions: A Mathematical Approach
Chapter 17: The Calculus of Single-Variable Functions: A Physics Approach
Chapter 18: Vectors

Part III: Advanced Topics in Mathematics

Chapter 19: Polar, Spherical, and Cylindrical Coordinate Systems
Chapter 20: Multivariate Calculus
Chapter 21: Elementary Linear Algebra
Chapter 22: Vector Calculus: Grad, Div, and Curl
Chapter 23: Vector Calculus: Flux and Gauss' Law
Chapter 24: Differential Equations
Chapter 25: Elementary Probability
Chapter 26: Infinite Series

APPENDIX A: RECTANGULAR COORDINATES IN SPACE

APPENDIX B: UNITS AND DIMENSIONS

APPENDIX C: SOLVING PHYSICS PROBLEMS

APPENDIX D: SELECTED PHYSICS FORMULAS

APPENDIX E: SELECTED PHYSICAL CONSTANTS

APPENDIX F: INTEGRATION BY PARTS

APPENDIX G: THE GREEK ALPHABET AND PREFIXES

6 of 7 people found the following review helpful.

The other reviews are NOT for THIS book!!!!

By Quinn

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. Amazon needs to clean up this particular item and how it's listed.

In 2007 they 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.

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