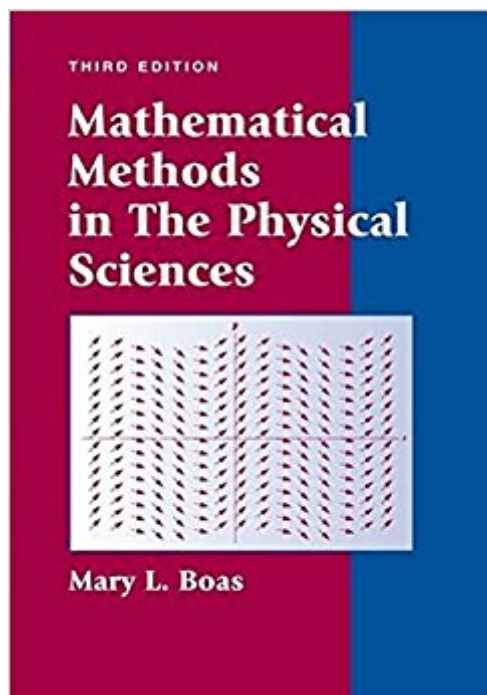


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Mathematical Methods In The Physical Sciences



Synopsis

Now in its third edition, *Mathematical Concepts in the Physical Sciences, 3rd Edition* provides a comprehensive introduction to the areas of mathematical physics. It combines all the essential math concepts into one compact, clearly written reference. This book is intended for students who have had a two-semester or three-semester introductory calculus course. Its purpose is to help students develop, in a short time, a basic competence in each of the many areas of mathematics needed in advanced courses in physics, chemistry, and engineering. Students are given sufficient depth to gain a solid foundation (this is not a recipe book). At the same time, they are not overwhelmed with detailed proofs that are more appropriate for students of mathematics. The emphasis is on mathematical methods rather than applications, but students are given some idea of how the methods will be used along with some simple applications.

Book Information

Hardcover: 864 pages

Publisher: Wiley; 3 edition (July 22, 2005)

Language: English

ISBN-10: 0471198269

ISBN-13: 978-0471198260

Product Dimensions: 7.2 x 1.3 x 10 inches

Shipping Weight: 3.4 pounds (View shipping rates and policies)

Average Customer Review: 4.2 out of 5 stars [See all reviews](#) (125 customer reviews)

Best Sellers Rank: #52,454 in Books (See Top 100 in Books) #19 in [Books > Science & Math > Physics > Mathematical Physics](#) #138 in [Books > Textbooks > Science & Mathematics > Physics](#) #465 in [Books > Science & Math > Earth Sciences](#)

Customer Reviews

Let me start off by saying, I have essentially covered every single chapter (with the exception of the multivariable calculus section, I took a separate course on that), and every single section in a 3-quarter mathematical methods course as part of my physics undergraduate requirements. And let me repeat this again, this book will make a man out of you. After you conquer this book, you will be on your way to conquering all undergraduate physics with ease; mathematics will no longer be a problem and the real learning of physics will begin.

1. Infinite Series, Power series: Great coverage of series and series representations of functions. Introduces several methods of determining convergence or divergence and techniques to convert essentially any function into a series as well

as determining accuracies in representations. These are invaluable tools to solve difficult and non-analytic functions that show up everywhere in physics.

2. Complex Numbers: A great introduction to complex analysis, starts off slow and easy and picks up the tempo with powers and roots of complex functions. This chapter is missing a discussion on the argument of a function and its meaning and kind of sweeps under the rug a few more technical things that a real complex analysis course would cover but nevertheless well done.

3. Linear Algebra: The linear algebra section is pretty solid as well and it went a bit further than my regular linear algebra course. The placement of planes and lines is a bit awkward and doesn't really deal with matrices in the sense that you don't need to write out matrices but still an appropriate spot.

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