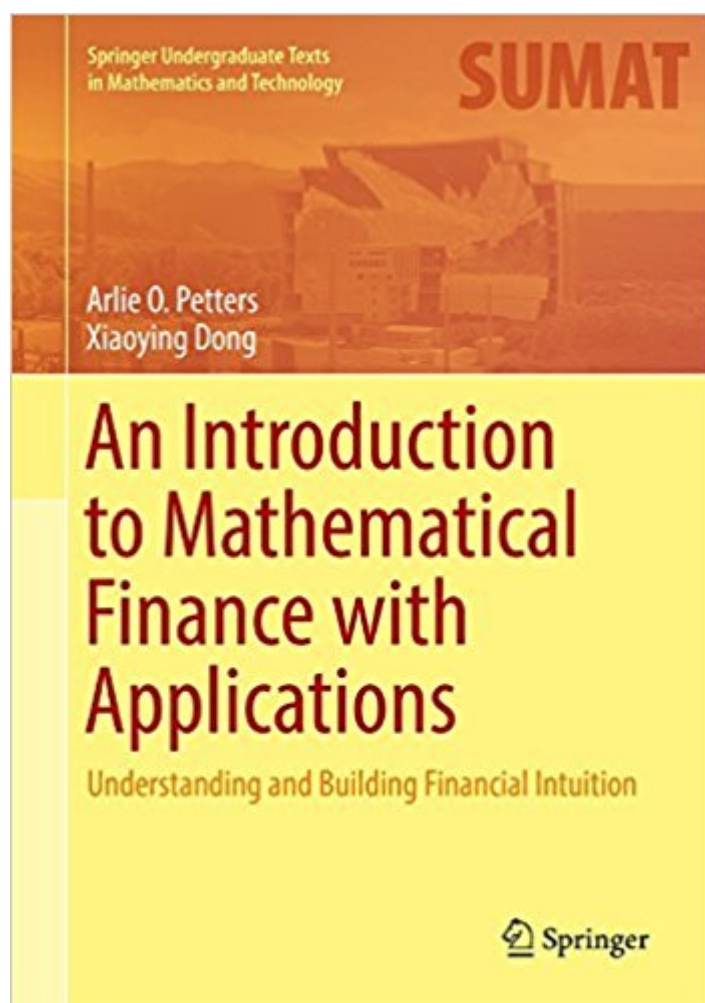




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Basic Training In Mathematics: A Fitness Program For Science Students



Synopsis

Based on course material used by the author at Yale University, this practical text addresses the widening gap found between the mathematics required for upper-level courses in the physical sciences and the knowledge of incoming students. This superb book offers students an excellent opportunity to strengthen their mathematical skills by solving various problems in differential calculus. By covering material in its simplest form, students can look forward to a smooth entry into any course in the physical sciences.

Book Information

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Customer Reviews

Excellent read on the tools of mathematics as applied to physics. This is a thorough coverage of a wide range of mathematics one will encounter in physics. This book illustrates the tools of the physicist and is not an introduction to the mathematics of calculus, differential equations, etc. This book shows you the use of those tools and applies those tools to problems to be solved as the text unfolds. I would consider this book as a great reference book to keep for a reminder of the tools one uses. The details of those tools will be learned in classes on calculus, linear algebra, complex

variables and differential equations. This book adds to that wider study but would not be the sole source to learn those other subjects.

The cover needs to be fixed! It is showing "An introduction to mathematical finance with applications" in the Kindle store

Simply, a classic! Warning though, one had better be well-equipped in Mathematical concepts, principles, and applications. This is not, as the title infers, a basic training course in Mathematics...Good Luck!

Great problems but definitely not a book to help learn calculus and higher level math. Use it if you need reminding of what you have already learned.

Overall good. Some concepts are not explained in enough detail. Shankar is obviously brilliant & moves through the material quickly. Never boring.

Excellent!

Shankar is a physics professor at Princeton who teaches mathematical methods to undergraduates, though from this book you'd think he teaches rigorous pure math to math majors. The biggest problem with this book is that every single topic in it is covered in such a way that you're hopeless if you haven't had at least a basic introduction to it elsewhere. I love math but he throws odd notation at you without explaining it, he skips steps and is too brief explaining things. He'll say things like " is because it's " and you're left trying to figure out what one thing has to do with another. Many problems are worded so badly you don't even know what he was asking AND THERE ARE TYPOS. I'm not alone in thinking this, all of my intro physics classmates hated Shankar as it was written in "Shankarese" (not my own term). I've spent hours, in groups with other students, on a single problem simply because we couldn't figure out what was being asked of us. And it's not because it was too complicated, it was just badly worded. Which is all too bad, because when this book is good, it's really good. Some concepts it explains in succinct, rigorous ways that I hadn't seen elsewhere and in those places it has helped me. This book is crying out for a new edition with a new writer who is better at communicating mathematical ideas. (FWIW, I've read about fifty pages of Shankar's quantum book and find it to be orders of magnitude better than this). Because of how

good it is in parts, I recommend buying it as part of your mathematical methods collection, but if I were to buy one and only one mathematical methods book I'd get another one.

This guy is good at explaining things and it is written like he is talking to you. However, even though I did well at Calculus 30 years ago this was too quick a dive in so I had to get "Calculus for Dummies" to remember what dx/dt is, etc

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