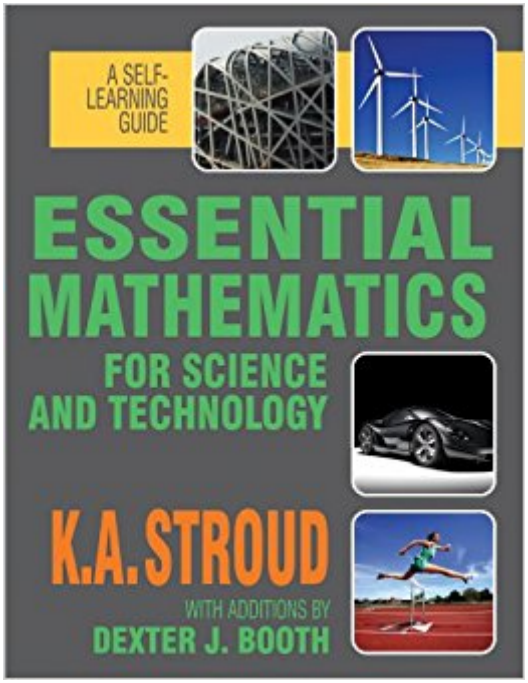
Essential Mathematics For Science And Technology: A Self-Learning Guide



Synopsis

This is an entry level text for a wide range of courses in computer science, medicine, health sciences, social sciences, business, engineering and science. Using the phenomenally successful approach of the bestselling Engineering Mathematics by the same authors, it takes you through the math step-by-step with a wealth of examples and exercises. It is an appropriate refresher or brush-up for sci-tech and business students whose math skills need further development.Offers a unique module approach that takes users through the mathematics in a step-by-step fashion with a wealth of worked examples and exercises.Contains Quizzes, Learning Outcomes and Can You? Checklists that guide readers through each topic and focus understanding.Ideal as reference or a self-learning manual.

Book Information

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Customer Reviews

This is a self teaching guide through and through. I assume that the author is European, as some wording and phrases seem quaint to American language, but this is only a benefit because learning in another fashion or style can only help us. I found that the flow of the book in its concepts from easy to difficult are correctly ordered, and the author doesn’t gap his examples easy and then make the ’quiz’ questions unreasonable. The book covers everything a college graduate in Engineering would learn and I feel confident reinforcing my knowledge from using the book.

I pre-ordered this book as a reference for a science major college student. I had expected it to be a bit more tutorial, and a bit less condensed. There isn't anything I would criticize about the book, indeed, it seems quite good. But I would say it is more of a "memory jogger" than a "self teacher". It would be fine for review if you are already fairly strong on math, but may not be what you need if you aren't.

Extremely pleased with this book. The layout doesn't follow in the order one would expect, but because of the density of information and the rational step-by-step building of concepts, it really makes sense and flows naturally. It marches out the concepts required in a sensible manner and will bring you from airthmetic all the way to calculus whether it's your first time or a refresher. Highly recommended.

If you get this book, be prepared to think. I would agree with the previous reviewer who stated that this book is condensed and not very tutorial. Regardless, if you have any training in arithmetic and pre-algebra you should be fine. The tricks to getting through this book are...1. PURPOSE. I would have given up on this book a hundred times already if I didn't have a predefined reason for reading it. Know your own reason and keep it in the back of your mind at all times.2. FOCUS. You have to pay attention. Fundamental concepts are explained in a few sentences, then never mentioned again. .There is no dwelling on specific subjects, so don't rely on many hours of problem solving to beat a subject into your head. You just have to get it and move on.3. PATIENCE. Don't rush this. You are not expected to burn through this in a weekend. After all, there are 62 units in the course of 700 pages... a lot to take in for those of us who aren't naturally math-inclined.In all, my advice is to make a study plan and stick with it. Aside from this, you'll want a good calculator too. I have been using Microsoft Mathematics - it works well and is free.In all this is not an academic guide but a book for people who need to build basic math skills for real world applications but don't have the time for classes or hours of homework. Just do one unit a day and you'll go from basic arithmetic to calculus in about two months, without killing yourself, going crazy, or spending a ton of money.

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