

ADVANCED ENGINEERING MATHEMATICS 2ED BY MICHAEL D GREENBERG pdf

1: Advanced engineering mathematics / Michael D. Greenberg. - Version details - Trove

I used this book for a graduate-level two-course sequence on engineering math based largely on Greenberg's own courses (there's a lot of faculty from Cornell in my department). I have to say, Greenberg has an amazing capability for communicating mathematics.

Equally as effective as either a textbook or reference manual, it approaches mathematical concepts from an engineering perspective, making physical applications more vivid and substantial. Its comprehensive instructional framework supports a conversational, down-to-earth narrative style, offering easy accessibility and frequent opportunities for application and reinforcement. True to its title, the book is miles ahead of Kreyzig, Wylie et al. Reading it one enjoys the beauty and the link between linear algebra, vector algebra, matrix algebra and system of partial differential equations. Transforms Fourier, Laplace have also been lucidly explained. Frankly, I have fallen in love with it. Thank you for providing us with a classic. Advanced Calculus for Applications - Hildebrand 3. Partial Differential Equations - L. Elements of PDEs - Sneddon 5. Bunch on Aug 05, Among the dozens of math books out there that are pure garbage, written by math professors for math professors, this is one of those rare shining gems that comes along every once in a decade, that was written with a student in mind. It is clear, concise, and easy to follow. It flows incredibly well, and in an organized manner. You can tell that this book was planned out, and not just written by some professor in a few weeks just to meet his writing obligations. It is a pure pleasure to read. If you have trouble understanding math, because your using a poor book written by a Its a little pricey, but trust me it is worth every cent. The price of the book is much less then the price to repeat a math course. Thanks a million Greenberg. Most worked-out problems analyze physical situations rather than abstractions making life a great deal easier for a student as well as teacher. Super-good introduction to Fourier transforms, linear algebra, etc. Professor said this one was "The Best" By Mark Goodell on Jan 06, We used this text in the mathematics course I had to take as a graduate level mechanical engineering student not at the University where the author teaches. The professor we had was exuberant about this text, pausing from time to time to say things like, "What the author has done here to explain such-and-such is simply marvelous. Engineering texts which I also have, that this text is the "best," especially in the partial differential equations area. This was the case, for example, with its explanation of how the Fourier Transform may be derived. Of all my math books, I really treasure this one. I believe this is a common problem with engineers; if a great depth is pursued in every subject the engineer deals with physics, chemistry, materials, statistics, etc. I had purchased or found in the library other books on advanced mathematics, but they were either too mathematical symbolic, meaning you had to study pages to get a result you needed, or too practical, written in a cookbook manner, i. This led me to buy it. Sorry for the lengthy "autobiography", but this was to clarify my "point" in my point of view, so that my "view" can be put to the appropriate frame. The examples given and the exercises are related to engineering concepts wherever this is possible. The best feature is that it also instigates the mathematical intuition of the reader, thereby uniting concepts and providing a motivation for further and deeper study of mathematics. Why do many people comment on the colour of the book? The book gets the message across without it. The best book in engineering mathematics By Xerf on Jan 17, I took two graduate math courses with Dr. Greenberg and I used this book often. However the book was not required as a course textbook, though I know people who bought it just because they considered it a must-have. All the chapters in the book contain representative worked examples chosen from various areas of mechanical engineering. Everything is very well explained in such way that the learning process is optimized and reader time is not wasted. By Omid on Jan 13, I want to mention some, and just some, of the perfect features of this great text and to thank its author, Professor Greenberg. A last word of mine: With this book present almost all others should think of a revision or Outstanding math book for engineers By Lance C. Hibbeler on Dec 16, This is possibly the best single math book I have come across. I have to say, Greenberg has an amazing capability for communicating mathematics. All of the topics

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he goes into are presented very lucidly, with several examples that both reinforce ideas as well as continue to teach- not just worked out problems for the sake of working out problems. The book covers ODEs, linear algebra and vector space theory, scalar and vector field theory, PDEs, and complex numbers- enough to give any engineer a solid background in the mathematics used to solve the problems that arise in engineering. After going through this book and the two courses, I fixed many of the holes that were in my mathematical background for whatever reason. The one topic that probably should have been in the book is tensor math it only has a footnote right now. One thing to be aware of is that the exercises at the end of each section are also filled with knowledge to take away. I can easily see myself using frequently this text as a reference for the rest of my career. Yet, in my opinion, none of these texts provides a better overview of applied engineering mathematics, exclusive of calculus. Among engineering texts, there seems to be a recent trend toward shrinking the sizes of books in an effort to save on costs. At over pages, this text cannot be faulted for excluding any relevant information. Every topic is covered in extensive detail with plenty of supporting examples and diagrams where appropriate. This is perhaps the only engineering text that I have used in which the reader is not left to guess at how a formula was derived or a solution was obtained, as each section is thoroughly explained. The flow of the book is exceptionally smooth, and the layout is orderly and intuitive. Mathematics, by its very nature, should be straightforward and logical. All too often, inadequate texts overcomplicate, oversimplify, or present in an illogical manner these fundamental concepts of engineering. For this reason, any engineer taking a course in linear algebra, differential equations, or applied mathematics should consider purchasing this book as a supplementary reference text even if it is not required. This book will prove to be an indispensable resource. Excellent for the math undergrad

By Kindle Customer on Aug 18, We used this text in an introductory math for engineers course that I took for fun I can see the smirk on your face already: Anyway, the book integrates different parts of applied mathematics very well, particularly drilling into your head the wonderful properties of linearity, and how linear algebra in general makes life much simpler. The diagrams are black and white, and very simple. It is not hard to see why mathematicians including several professors I know prefer Greenberg, as his presentation is more crisp, and it definitely flows. Some of the material requires deep thought, but is well worth the effort. His material on PDEs mostly 2nd order linear equations is very engaging, and expertly written. My verdict is this: However, if you want a text to learn the material from, I would definitely go with Greenberg. If you have the money, get both titles, they complement each other well. But if you can only afford one, get Greenberg. Rigorous, concise, and accessible.

By Nav89 on May 07, I picked up this book as a course-text for a PDE class during my first semester as a graduate student. I read the book during the course in question, but I really delved into it during the past month while studying for my PhD qualifying exams. With math books, I frequently find many concepts and theorems presented in ways that leave out the critical connections to other, fundamental concepts. Greenburg concentrates on the fundamentals as justification for more-specific topics. For example, the idea of vector space is presented very generally, also but very rigorously. Later on, the idea is expanded to cover function space, which leads into Sturm-Liouville problems, orthogonal expansions, and Fourier series. Best of all, he does it in such a way that a reasonably-attentive and interested reader would have a hard time missing the simplicity of the connections he points out. The text is large, but it covers a huge range of topics without being overly-verbose. I bought mine six-times used.

By Calvinme on Aug 07, Table of contents: Introduction to Differential Equations. Equations of First Order. Numerical Solution of Differential Equations. Phase Plane and Nonlinear Differential Equations. Matrices and Linear Equations. Extension to Complex Case Optional. Differential Calculus of Functions of Several Variables. Curves, Surfaces, and Volumes. Scalar and Vector Field Theory. Functions of a Complex Variable. The Complex Integral Calculus. Review of Partial Fraction Expansions. Table of Laplace Transforms. Table of Fourier Transforms. Table of Fourier Cosine and Sine Transforms. Table of Conformal Maps. Most of the chapters contain what you need to succeed with hidden gems and derivations hidden in some of the homework problems.

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Description. Appropriate for one- or two-semester Advanced Engineering Mathematics courses in departments of Mathematics and Engineering. This clear, pedagogically rich book develops a strong understanding of the mathematical principles and practices that today's engineers and scientists need to know.

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