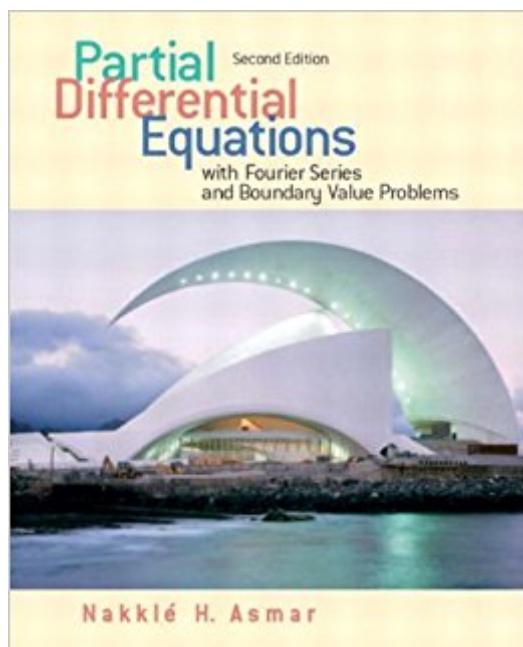The book was found

Partial Differential Equations With Fourier Series And Boundary Value Problems (2nd Edition)

Synopsis

This example-rich reference fosters a smooth transition from elementary ordinary differential equations to more advanced concepts. Asmar's relaxed style and emphasis on applications make the material accessible even to readers with limited exposure to topics beyond calculus. Encourages computer for illustrating results and applications, but is also suitable for use without computer access. Contains more engineering and physics applications, and more mathematical proofs and theory of partial differential equations, than the first edition. Offers a large number of exercises per section. Provides marginal comments and remarks throughout with insightful remarks, keys to following the material, and formulas recalled for the reader's convenience. Offers Mathematica files available for download from the author's website.   A useful reference for engineers or anyone who needs to brush up on partial differential equations.

Book Information

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Customer Reviews

NakhlÃ© H. Asmar is Professor of Mathematics at the University of Missouri, Columbia. He is also the author of Applied Complex Analysis with Partial Differential Equations. --This text refers to an alternate Paperback edition.

I am an aerospace engineering graduate moving on to a masters program in the fall. I purchased this book because my degree program did not include a class geared specifically toward solving partial differential equations analytically. This book provides a great transition from solving ordinary

differential equations to solving partial differential equations, as well as covering the situations that they arise in physics and engineering. I was able to follow the text on my own and answer a number of questions I had upon completion of my undergraduate studies, as well deepen my understanding of complex analysis and conformal mapping.My one complaint for this text is that there are a number of very important concepts left to the reader to discover on their own via the exercises. Most of these exercise problems walk you through the problem, but a few simply leave it up to the reader to "figure it out." This is probably the best way to learn if you have the same amount of time that the founding mathematicians did when they made such discoveries, but I would have preferred a few more explanations in the body of the text. With that said, if this book is used in the classroom, I am sure the professor and teaching assistant can make up for this discrepancy (I just wasn't fortunate enough to be in that position).

I bought this book up here because I didn't want to get exploited by the various bookstores around my campus as I was as a freshman, and I've gotta say that the thorough quality of work in this book probably saved my grade in my PDE class, because the professor I had was not the greatest professor in the world whether it be in his ability to accurately enunciate anything in the English language, or his unwillingness to deviate from the notes he'd developed for teaching the class after quite a number of years. It was bought used, but came to me in great condition. I'd recommend the book to anyone looking for a kickstart in PDE - the BVP problems were very straight-forward as well.

The only issue I have with this book is the softcover is very thin and bends easily. Other than that, it's the book that I needed. Delivery time wasn't amazing but it was acceptable.

This text assumes much more than it should. Although I understand Diff EQ, and some Linear Algebra, the text was basically very vague. I prefer exhaustive explanations, as opposed to "a smoke and mirrors" approach. Unfortunately this book fits within the usual collection of over-generalized and poorly explained material that has sadly become the norm in technical education. Why give us exercises covering theorems that the book may not have even addressed. At a minimum, anything that is educational should be helpful.

This is honestly one of the worst textbooks I've read, unfortunately. To start off with my most petty gripe about the book, it's in black and white. I know that it has no effect whatsoever on the actual content, but somehow the blue titles and other small bits of color in other textbooks just makes them

easier to read. I understand that going into the book you're expected to have a knowledge of ordinary differential equations, but as near as I can tell the book expects that you just got out of your diffEQ course with an A+. From how few examples it has to the "magic" they sometimes employ (it took me 10 minutes to divine that between two steps in a solution, they went back and applied the problem to a previous formula, took the answer, and then printed the answer without showing any steps or offering any explanation of what they did) and just plain how poorly the book's sections are structured (no clear separation of focus, once seamlessly interrupting the problem set to start the next section), I have great difficulty in learning anything from this book. To offer an example, I'm a little rusty with my diffEQ course taken a year ago, but I know basically how to solve initial and boundary value problems in one dimension. The book is asking that I solve them in two dimensions and has, literally, 0 examples of this. In the whole of section 1.2, the section where they introduce IVP and BVP, there is not a single example. So far I would suggest to anyone looking to buy that they get the problems in it from someone else in their class and just google some examples or ask their professor for help, as so far the internet has been far more helpful than this book for solving the questions in it. There's a chance that the book will get better as I get further into the class, but I'm not holding my breath.

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