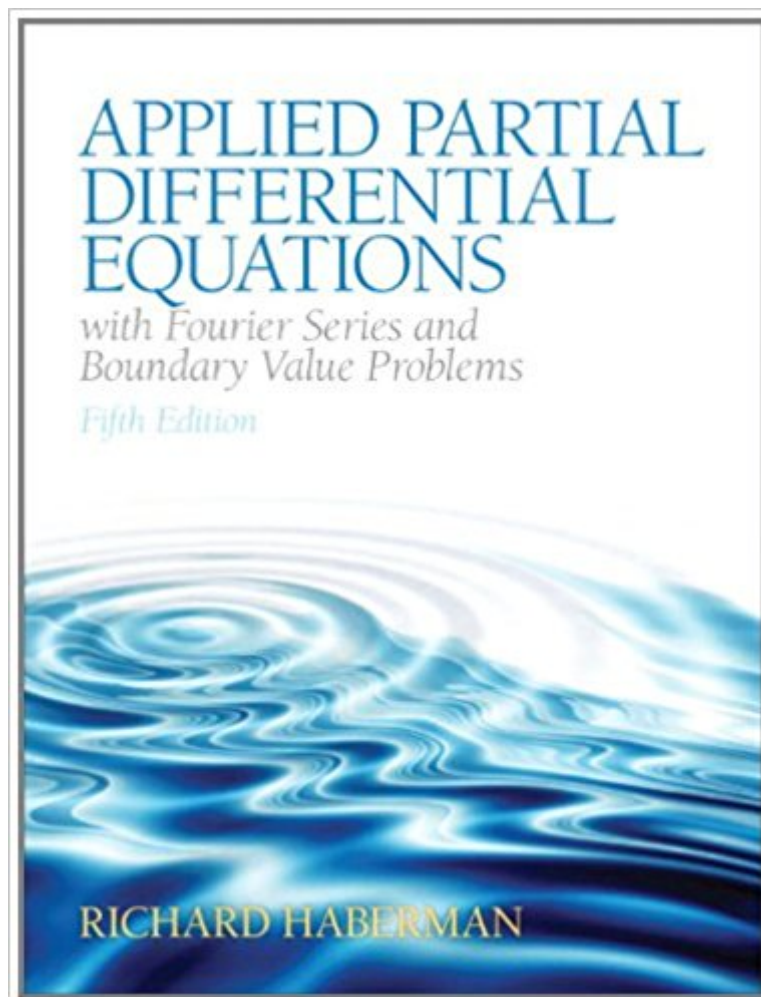




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Applied Partial Differential Equations With Fourier Series And Boundary Value Problems (5th Edition) (Featured Titles For Partial Differential Equations)





Synopsis

This book emphasizes the physical interpretation of mathematical solutions and introduces applied mathematics while presenting differential equations. Coverage includes Fourier series, orthogonal functions, boundary value problems, Green's functions, and transform methods. This text is ideal for readers interested in science, engineering, and applied mathematics.

Book Information

Series: Featured Titles for Partial Differential Equations

Hardcover: 784 pages

Publisher: Pearson; 5 edition (September 1, 2012)

Language: English

ISBN-10: 0321797051

ISBN-13: 978-0321797056

Product Dimensions: 7.8 x 1.8 x 9.2 inches

Shipping Weight: 2.4 pounds (View shipping rates and policies)

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Customer Reviews

Richard Haberman is Professor of Mathematics at Southern Methodist University, having previously taught at The Ohio State University, Rutgers University, and the University of California at San Diego. He received S.B. and Ph.D. degrees in applied mathematics from the Massachusetts Institute of Technology. He has supervised six Ph.D. students at SMU. His research has been funded by NSF and AFOSR. His research in applied mathematics has been published in prestigious international journals and include research on nonlinear wave motion (shocks, solitons, dispersive waves, caustics), nonlinear dynamical systems (bifurcations, homoclinic transitions, chaos), singular perturbation methods (partial differential equations, matched asymptotic expansions, boundary layers) and mathematical models (fluid dynamics, fiber optics). He is a member of the Society for Industrial and Applied Mathematics and the American Mathematical Society. He has taught a wide range of undergraduate and graduate mathematics. He has published undergraduate texts on Mathematical Models (Mechanical Vibrations, Population Dynamics, and Traffic Flow) and Ordinary Differential Equations.

Decent book, a bit light on examples though

logic and differential equations, hard but book is helpful

nice book and cover all the topics which I needed.

An Excellent book for those learning applications of differential equations at graduate level.

Great for self-study. There are a lot of words, but it is a textbook. There are no wasted words. Each step being taken is fully explained and reasoned so that the process can be applied to the exercises. Definitely unusual for a mathematics text, but excellent for help solving PDEs. I used this text in an introductory PDE class, a requirement for engineers. Will be looking to take a more advanced class on the subject. One of the textbooks I bought after renting.

This book presents a clear and concise development of Partial Differential Equations (PDEs) based on physical applications. It only assumes a basic knowledge of ordinary differential equations and physics. The text is developed clearly but still rigorous enough for both math and physics students, with only a few lengthy derivations omitted for length. This is an excellent first textbook on PDEs for advanced undergraduates or beginning graduate students.

A very poorly organized book. It started introducing and solving the PDE from an example of physics in certain conditions, which made the theorems regarding to PDE not systematic at all. It might be a decent book of introduction for students in non-relevant majors to PDE such as education and medical study, but it is certainly not a proper choice for math and physics students who plan to build a solid understanding on partial differential equation.

I like the book's step by step, clear explanation. This is great for self-study. Somebody would say it is wordy, but the word line by line is necessary to fully grasp the notion within. However, the print quality is not so excellent. Might be better if the ink to the text would be fully supplied from the printer. However it is readable without any difficulty. Thanks a lot Professor Haberman.

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