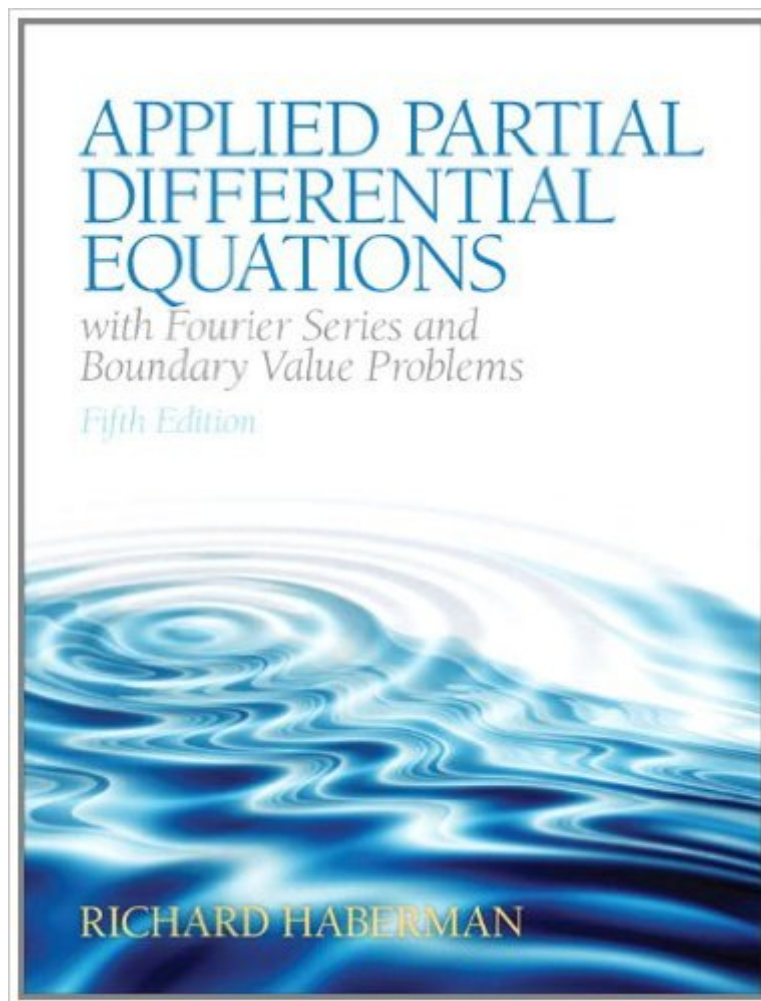# Applied Partial Differential Equations With Fourier Series And Boundary Value Problems (5th Edition) (Featured Titles For Partial Differential Equations)

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, Greenâ ™s functions, and transform methods. Â This text is ideal for readers interested in science, engineering, and applied mathematics.

Book Information

Series: Featured Titles for Partial Differential Equations

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Average Customer Review: 3.9 out of 5 starsÂ Â See all reviewsÂ (16 customer reviews)

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Customer Reviews

Took the class from the 4th edition. Graded from the 5th edition two years later.Not sure I can recommend this book except to a sophomore-junior who has had little-to-no exposure to PDEs. Might work as a good self-study for the interested physics/engineering student; math folk will despise this book for its lack of rigour (its definitlety NOT the definition, theorem, proof, corollary, lemma, theorem... format).Major Complaint: Too many words...whats up with that? I feel like a derivation can be made with SHORT interspersed comments. Can help but feel that the comments are a dialogue of what the author tells his students when he is lecturing. Could easily be made into a 150 page book. But then again that is the way the modern textbooks published.Green's Function section is atrocious and not organized at all. If you refuse to explain a topic in a logical, concise (yet complete) sequence the interest of the reader will be quickly lost and/or disinterested.Another complaint - Development of a solution to the vibration of the circular drumhead. Not sure why the author felt the need to show the asymptotic solution prior to the full solution. This approach very much detracts from a logical development. Solve the problem THEN examine the limiting

cases.Who needs 400+ pages on separation of variables? Work a couple of nice 1-D cases to justify your cases then show some cylindrical and spherical problems and be done with it! I got the feeling the author wasn't writing a math text but rather another poorly written engineering text.Would suggest to the reader of this review to start with Farlow's Partial Differential Equations for Scientists and Engineers (cheap) or Sommerfield's Partial Differential Equations of Physics (well written).

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