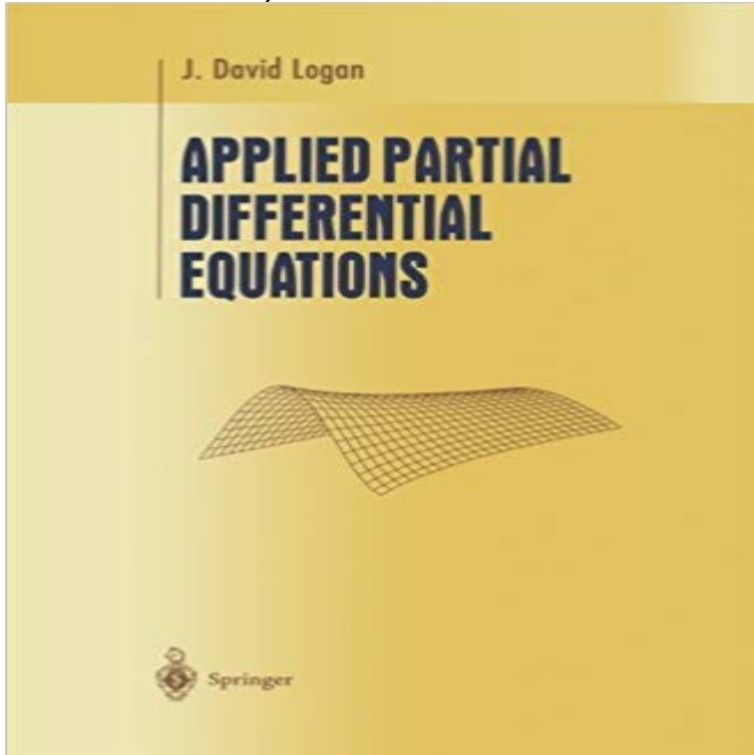


# Applied Partial Differential Equations (Undergraduate Texts in Mathematics)



This textbook is for the standard, one-semester, junior-senior course that often goes by the title Elementary Partial Differential Equations or Boundary Value Problems. The audience consists of students in mathematics, engineering, and the physical sciences. The topics include derivations of some of the standard equations of mathematical physics (e.g., the heat equation, the wave equation, and Laplace's equation) and methods for solving those equations on bounded and unbounded domains (including transform methods and eigenfunction expansions). Prerequisites include multivariable calculus and post-calculus differential equations course. The text differs from other texts in that it is a brief treatment (about 200 pages); yet it provides coverage of the main topics usually studied in the standard course as well as an introduction to using computer algebra packages to solve and understand partial differential equations. The writing has an engineering and science style to it rather than a traditional, mathematical, theorem-proof format. The exercises encourage students to think about the concepts and derivations. The student who reads this book carefully and solves most of the exercises will have a sound enough knowledge base to continue with a second-year partial differential equations course where careful proofs are constructed or upper division courses in science and in engineering where detailed applications of partial differential equations are introduced.

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