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Applied Partial Differential Equations by J. David Logan Summary. 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 usually consists of students in mathematics, engineering, and the physical sciences.

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Applied Partial Differential Equations. The topics include derivations of some of the standard equations of mathematical physics (including the heat equation, the wave equation, and Laplace's equation) and methods for solving those equations on bounded and unbounded domains. Methods include eigenfunction expansions, or separation of variables, ...

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Many exercises and worked examples have been added to this edition. Prerequisites include calculus and ordinary differential equations. A student who reads this book and works many of the exercises will have a sound knowledge for a second course in partial differential equations or for courses in advanced engineering and science.

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Applied Partial Differential Equations. The audience consists of students in mathematics, engineering, and the sciences. The topics include derivations of some of the standard models of mathematical physics and methods for solving those equations on unbounded and bounded domains, and applications of PDE's to biology.

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This primer on elementary partial differential equations presents the standard material usually covered in a one-semester, undergraduate course on boundary value problems and PDEs. What makes this book unique is that it is a brief treatment, yet it covers all the major ideas: the wave equation, the diffusion equation, the Laplace equation, and ...

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David Logan, "Applied Mathematics", John Wiley and Sons, Inc, New York, 1997 (Second Edition) 2. Roland B Guenter and John W. Lee, "Partial Differential Equations of Mathematical Physics and Integral Equations", Prentice Hall, 1988.

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Applied Partial Differential Equations. The concise treatment of the subject is maintained in this third edition covering all the major ideas: the wave equation, the diffusion equation, the Laplace equation, and the advection equation on bounded and unbounded domains. Methods include eigenfunction expansions, integral transforms, and characteristics.

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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 sciences. The topics include derivations of some of the standard models of mathematical physics and methods for solving those equations on unbounded and ...

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Applied Partial Differential Equations, 3rd ed J. David

Logan, 2015 Springer-Verlag, New York ISBN

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Selected Exercises (Draft)

Applied Partial Differential Equations. The topics include derivations of some of the standard models of mathematical physics (e.g., the heat equation, the wave equation, and Laplace's equation) and methods for solving those equations on unbounded and bounded domains (transform methods and eigenfunction expansions).

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Applied Partial Differential Equations John David Logan

This text is written for the standard, one-semester, undergraduate course in elementary partial differential equations.

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4 1. The Physical Origins of Partial Differential Equations. The

initial condition is $u(x,0) = 0$ and the boundary condition is

$u(0,t) = n_0$. To solve the equation goto

characteristic coordinates $\xi = x - ct$ and $\eta = t$. Then the PDE for $N =$

$N(\xi, \eta)$ is $N_\xi = r N$. Separate variables and integrate to get 2

? $N = r\eta + c(\eta)$.