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analysis of the solutions of the equations. One of the most important techniques is the method of separation of variables. Many textbooks heavily emphasize this technique to the point of excluding other points of view. The problem with that approach is that only certain kinds of partial differential equations can be solved by it, whereas others cannot.

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W. A. Strauss, Partial Differential Equations: An Introduction; Other references include J. D. Logan, Applied Mathematics (Chapters 6-8; easier than the main textbook) L. C. Evans, Partial Differential Equations (graduate-level standard textbook) V. I. Arnold, Lectures on Partial Differential Equations (for very serious students) Assessment ...

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Thus the solution of the partial differential equation is  $u(x,y)=f(y+\cos x)$ . To verify the solution, we use the chain rule and get  $u_x = -\sin x f'(y+\cos x)$  and  $u_y = f'(y+\cos x)$ . Thus  $u_x + \sin x u_y = 0$ , as desired.

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3.1 Partial Differential Equations in Physics and Engineering 82  
3.3 Solution of the One Dimensional Wave Equation: The Method of Separation of Variables 87  
3.4 D’Alembert’s Method 104  
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3.6 Heat Conduction in Bars: Varying the Boundary Conditions 128  
3.7 The Two Dimensional Wave and Heat Equations 144

## **Instructor’s Solutions Manual PARTIAL DIFFERENTIAL EQUATIONS**

A solution or integral of a partial differential equation is a relation connecting the dependent and the independent variables which satisfies the given differential equation. A partial differential equation can result both from elimination of arbitrary constants and from elimination of arbitrary functions as explained in section 1.2.

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The official prerequisites for this course are ordinary differential equations (MATH 20D) and linear algebra (MATH 20F), but a thorough understanding of (multivariable) calculus (MATH 20ABCE) is also necessary. Everything in Appendices A1-A4 of the textbook, W. A. Strauss, Partial Differential Equations: An Introduction, 2nd ed. (New York ...

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