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Mariam and our children Petros, Maria-  
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Thus the solution of the partial  
differential equation is  $u(x,y)=f(y+$



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$\cos x$ ). To verify the solution, we use the chain rule and get  $u_x = -\sin x f_0(y + \cos x)$  and  $u_y = f_0(y + \cos x)$ . Thus  $u_x + \sin x u_y = 0$ , as desired.

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**John Douglas Moore May 21, 2003**

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Nonlinear partial differential equations (PDEs) is a vast area, and practitioners include applied mathematicians, analysts, and others in the pure and applied sciences. This introductory text on nonlinear partial differential equations evolved from a graduate course I have taught for many years at the University of Nebraska at Lincoln.

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case of a partial differential equation but the behavior of solutions is quite different in general caused by the fact that the functions for which we are looking at are functions of more than one independent variable.

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An Introduction to Applied Partial  
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Contents Preface ix Chapter 1. Boundary

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Value Problems 1 1.1. Elastic Bar 1 1.2.

The Green's Function 5 1.3. Minimum

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