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$C$  or  $y + \cos x = C$ . 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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## **Partial Differential Equations: An Introduction, Student ...**

Nonlinear Wave Equations, NSF-CBMS Research Monograph, Amer. Math. Soc., Providence, 1989. Partial Differential Equations: An Introduction, Click here for a list of errata. The Second Edition has been in print since 2008. It is strongly recommended that students use it in conjunction with the solutions manual.

## **Walter Strauss - Department of Mathematics | Brown University**

Walter Strauss' Partial Differential Equations: An Introduction is pretty standard as far as undergraduate texts go. It seems pretty good to me, although it contains many errors, especially in the first edition. (Errata) The presentation style is ...

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