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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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$C$  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 Math 124A { Fall 2010 «  
Viktor Grigoryan grigoryan@math.ucsb.edu Department of

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Mathematics University of California, Santa Barbara These lecture notes arose from the course "Partial Differential Equations" (Math 124A) taught by the author in the Department of Mathematics at UCSB in the fall quarters of 2009 and 2010.

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the textbook, W. A. Strauss, Partial Differential Equations: An Introduction, 2nd ed. (New York ...

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by Walter A. Strauss.

## **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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