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Hence $y = -\cos x + C$ 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 $u_y = f'(y + \cos x)$.

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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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in this book. However, because partial differential equations is a subject at the forefront of research in modern science, I have not hesitated to mention advanced ideas as further topics for the ambitious student to pursue. This is an

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for Quasilinear Equations 5.2.1

Conservation Laws and Jump Conditions

Consider shocks for an equation $u_t + f(u)_x = 0$, (5.3) where f is a smooth function of u . If we integrate (5.3) with respect to x for $a \leq x \leq b$,

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$b(x,y,u)$, and $c(x,y,u)$ are continuous in some region of xyu -space, and we seek solutions of the PDE that have continuous first partial derivatives u_x and u_y . If $c(x,y,u)$ is of the form $c(x,y)u + d(x,y)$, and $a(x,y,u)$ and $b(x,y,u)$ are independent of u , the equation is said to be linear.

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Solution Manual for Partial Differential Equations ...

In mathematics, a partial differential

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equation (PDE) is a differential equation that contains unknown multivariable functions and their partial derivatives. PDEs are used to formulate problems involving functions of several variables, and are either solved by hand, or used to create a computer model.

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Wikipedia

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