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Linear Partial Differential Equations 5 Find the coupled system of partial differential equations for  $\hat{u} = u + iv$ ;  $v = r$ : Solution 6. First we calculate  $\hat{u} @ t = @ @ t ( ) = @ @ t + @ @ t$ : Inserting the Schrödinger equation and  $i \hat{u} @ t = 1/2 m + V(x)$  yields  $\hat{u} @ t = 1/2 i m \hat{u} ( ) + 1/2 i m \hat{u}$ : We set  $R = e^{iS}$ , where  $R$  and  $S$  are real-valued. Next we separate

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Linear PDEs can be reduced to systems of ordinary differential equations by the important technique of separation of variables. This technique rests on a characteristic of solutions to differential equations: if one can find any solution that solves the equation and satisfies the boundary conditions, then it is the solution (this also applies to ODEs).

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Finally, to cope with the partial differential form of the equations, a separation-of-variables method is used to transform the problem into two linear ordinary differential equations (Myint-U ...

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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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