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From  $X''(1) = -X(1)$ , we find that  $-c^2\mu^2\sin\mu + c^2\mu\cos\mu = -c^2\mu\cos\mu - c^2\sin\mu$ . Hence  $\mu$  is a solution of the equation  $-\mu^2\sin\mu + \mu\cos\mu = -\mu\cos\mu$

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$$-\sin\mu \Rightarrow 2\mu\cos\mu$$

$=(\mu^2 - 1)\sin\mu$  Note that

$\mu = \pm 1$  is not a solution

and  $\cos\mu = 0$  is not a

possibility, since this

would imply  $\sin\mu = 0$

and the two equations

have no common

solutions.

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1982, Partial

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selection of relevant

problems, with answers

to selected problems.

The treatment is now

supplemented by this

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## **Equations for ...**

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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C or  $y + \cos x = C$ . Thus

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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.

## Students' Solutions Manual PARTIAL DIFFERENTIAL EQUATIONS

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Equations: An

Introduction by Walter

A. Strauss 2nd Eds

10:30 Mathematics ,

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understanding of the  
fundamental processes  
of the natural world is  
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on partial differential  
equations (PD...

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Thus the solution of the

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equation is  $u(x, y) = f$

$(y + Tyn, Manual$

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**Solutions to Applied  
Partial Differential  
Equations with ...**

$$x^3 = 2 \cos x \quad x^1 = 2 \sin x$$

$$3 \quad 4 \quad x^1 = 2 \cos x$$

$$x^1 = 2 \sin x \quad 1 \quad 2$$

$$x^1 = 2 \cos x \quad x^3 = 2 \cos x \quad 1$$

$$4 \quad x^1 = 2 \cos x \quad C_4 x \quad x^2. \quad 1$$

$$4 \quad .4 x C_8 / D \quad 4 x^3 C_8 x^2 C$$

$$3 x^2. \quad 1.2.4. \quad (a) \text{ If } y_0 D$$

$$x e^x, \text{ then } y_D x e^x C R$$

$$e^x dx C c D .1 \quad x / e^x C c,$$

$$\text{and } y_0 / D 1) \quad 1 D \quad 1 C c, \text{ so}$$

$$c D 0 \text{ and } y_D .1 \quad x / e^x. \quad (b)$$

$$\text{If } y_0 D x \sin x^2, \text{ then } y_D$$

$$1 \quad 2 \quad \cos x^2 C c; \quad y \quad r^{\vee} \quad 2 \quad D$$

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1)  $1 - D^2 c$ , so  $c = D$

1 and  $y = D^{-1} \cos x^2$ .

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...

The aim of this is to introduce and motivate partial differential equations (PDE). The section also places the scope of studies in APM346 within the vast universe of

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mathematics. 1.1.1

What is a PDE? A partial differential equation (PDE) is an equation involving partial derivatives. This is not so informative so let's break it down a bit.

## **Partial Differential Equations**

In mathematics, a partial differential equation is an equation which imposes relations between the

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various partial derivatives of a multivariable function.

The function is often thought of as an "unknown" to be solved for, similarly to how  $x$  is thought of as an unknown number, to be solved for, in an algebraic equation like  $x^2 - 3x + 2 = 0$ .

However, it is usually impossible to write down explicit formulas for solutions of partial differential equations.

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There is,

correspondingly, a vast

Equations

**Partial differential equation - Wikipedia**

The Physical Origins of  
Partial Differential

Equations There are  
three cases, depending  
upon upon the

discriminant  $c^2 - 4D_r$ .

If  $c^2 - 4D_r = 0$  then the  
roots are equal ( $c = 2D$ )

and the general  
solution has the form

$u(x) =$   
*Page 23/27*

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$ae^{cx/2D} + be^{-cx/2D}$ . If  $c^2 - 4Dr > 0$  then there are two real roots and the general solution is  $u(x) = ae^{\lambda+x} + be^{\lambda-x}$ .

## **Applied Partial Differential Equations, 3rd ed. Solutions ...**

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Equations 503 where  
 $\nabla^2$  is the Laplacian  
operator, which in  
Cartesian coordinates



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is  $V_2 = a_2 a \sim a_2 \sim + \sim$

(III.8) Equation (III.5),

which is the one ...

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