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Solution of Partial differential equations by direct integration methodPDE | Heat equation: intuition Partial Differential Equations - II. Separation of Variables **How to solve quasi linear PDE** Direct integration method First Order PDE Turning PDE into ODE NON HOMOGENEOUS PARTIAL DIFFRENTIAL EQUATION ||BTECH||4TH SEM ||APPLIED MATHEMATICS||PART 6

Method of characteristics and PDE

PDE: Heat Equation - Separation of VariablesMethod of

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Thus the solution of the partial differential equation is u(x,y)=f(y+ cosx). To verify the solution, we use the chain rule and get ux = −sinxf0 (y+ cosx) and uy = f0 (y+cosx). Thus ux + sinxuy = 0, as desired.

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C or y+ cosx = C. Thus the solution of the partial differential equation is u(x,y) = f(y+ cosx). To verify the solution, we use the chain rule and get ux = −sinxf0 (y+ cosx) and uy = f0 (y+cosx). Thus ux + sinxuy = 0, as desired.

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PARTIAL DIFFERENTIAL EQUATIONS
From X#(1) = −X(1), we find that −c2μ2sinμ + c2μcosμ = −c2μcosμ − c2sinμ. Hence μ is a solution of the equation −μ2sinμ +μcosμ = −μcosμ −sinμ ⇒ 2μcosμ =(μ2−1)sinμ Note that μ = ±1 s not a solution and cosμ = 0 is not a possibility, since this would imply sinμ = 0 and the twoequations have no common solutions.

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Thus the solution of the partial differential equation is u (x, y) = f (y + Tyn, Manual Solution Linear Partial Differential. Equations, Partial Differential Equations -

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Introduction to Partial Differential Equations
If c2− 4Dr= 0 then the roots are equal (c 2D) and the general solution has the form u(x) =

aecx/2D+bxecx/2D. If c2−4Dr>0 then there are two real roots and the general solution is u(x) = aeλ+x+beλ−x. If c2−4Dr<0 then the roots are complex and the general solution is given by u(x) = aecx/2D. acos √ 4Dr−c2.

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Thus by superposition, u (x, t) = e n=1 L RL P nπx 2 nπx the initial conditions u (x, 0) = f (x) = ∞ b sin yields b = n n=1 n L L 0 f (x) sin L dx. As t → ∞, u → 0, the only equilibrium ...

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x3=2sinx x1=2cosxC 3 4 x1=2sinxCx1=2cosx 1 2 x1=2sinxCx3=2sinx 1 4 x1=2sinx

Cc2. x3=2cosxCx1=2sinxC 3 4 x1=2cosx x1=2sinx 1 2 x1=2cosxCx3=2cosx 1 4 x1=2cosx C4xC x2. 1 4 .4xC8/D 4x3C8x2C 3x 2. 1.2.4. (a) If y0D xex, thenyD xexC R exdxCcD .1 x/exCc, and y.0/D 1) 1D 1Cc, so cD 0and yD .1 x/ex.

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