In Problems 27–30, a partial differential equation (PDE) is given along with the form of a solution having separated variables. Show that such a solution must satisfy the indicated set of ordinary differential equations.

27. $\dfrac{\partial^2 u}{\partial r^2} + \dfrac{1}{r}\dfrac{\partial u}{\partial r} + \dfrac{1}{r^2}\dfrac{\partial^2 u}{\partial \theta^2} = 0$

with $u(r, \theta) = R(r)T(\theta)$ yields

$$r^2 R''(r) + rR'(r) - \lambda R(r) = 0 \,,$$
$$T''(\theta) + \lambda T(\theta) = 0 \,,$$

where λ is a constant.

28. $\dfrac{\partial^2 u}{\partial t^2} + \dfrac{\partial u}{\partial t} + u = \alpha^2 \dfrac{\partial^2 u}{\partial x^2}$

with $u(x, t) = X(x)T(t)$ yields

$$X''(x) + \lambda X(x) = 0 \,,$$
$$T''(t) + T'(t) + (1 + \lambda\alpha^2)T(t) = 0 \,,$$

where λ is a constant.

Partial Differential Equations Problems And Solutions

Yicheng Fang

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Computational Partial Differential Equations Nandini Mahanama,2013-04 This book is suitable for readers with a background in basic finite element and finite difference methods for partial differential equations who want gentle introductions to advanced topics like parallel computing multi grid methods and special methods for systems of PDEs The goal of all chapters is to compute solutions to problems hence algorithmic and software issues play a central role **Basic Partial Differential Equations** David. Bleecker,George. Csordas,1992-05-01 Topics not usually found in books at this level include but examined in this text the application of linear and nonlinear first order PDEs to the evolution of population densities and to traffic shocks convergence of numerical solutions of PDEs and implementation on a computer convergence of Laplace series on spheres quantum mechanics of the hydrogen atom solving PDEs on manifolds The text requires some knowledge of calculus but none on differential equations or linear algebra **Solution Techniques for Elementary Partial Differential Equations** Christian Constanda,2016-03-30 Solution Techniques for Elementary Partial Differential Equations Third Edition remains a top choice for a standard undergraduate level course on partial differential equations PDEs Making the text even more user friendly this third edition covers important and widely used methods for solving PDEs New to the Third Edition New sections on the series expansion of more general functions other problems of general second order linear equations vibrating string with other types of boundary conditions and equilibrium temperature in an infinite strip Reorganized sections that make it easier for students and professors to navigate the contents Rearranged exercises that are now at the end of each section subsection instead of at the end of the chapter New and improved exercises and worked examples A brief Mathematica program for nearly all of the worked examples showing students how to verify results by computer This bestselling highly praised textbook uses a streamlined direct approach to develop students competence in solving PDEs It offers concise easily understood explanations and worked examples that allow students to see the techniques in action **An Introduction to Partial Differential Equations** Michael Renardy,Robert C. Rogers,2006-04-18 Partial differential equations are fundamental to the modeling of natural phenomena arising in every field of science Consequently the desire to understand the solutions of these equations has always had a prominent place in the efforts of mathematicians it has inspired such diverse fields as complex function theory functional analysis and algebraic topology Like algebra topology and rational mechanics partial differential equations are a core area of mathematics This book aims to provide the

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