

Partial Differential Equation

A partial differential equation (PDE) is an equation involving functions and their partial derivatives; for example, the wave equation

$$\frac{\partial^2 \psi}{\partial x^2} + \frac{\partial^2 \psi}{\partial y^2} + \frac{\partial^2 \psi}{\partial z^2} = \frac{1}{v^2} \frac{\partial^2 \psi}{\partial t^2}. \quad (1)$$

Some partial differential equations can be solved exactly in the Wolfram Language using `DSolve[eqn, y, {x1, x2}]`, and numerically using `NDSolve[eqns, y, {x, xmin, xmax}, {t, tmin, tmax}]`.

In general, partial differential equations are much more difficult to solve analytically than are ordinary differential equations. They may sometimes be solved using a Bäcklund transformation, characteristics, Green's function, integral transform, Lax pair, separation of variables, or--when all else fails (which it frequently does)--numerical methods such as finite differences.

Partial Differential Equations And Mathematica

**Ioannis P Stavroulakis, Stepan A
Tersian**

Partial Differential Equations And Mathematica:

Differential Equations Marian Mureşan, 2024-06-17 The book concerns with solving about 650 ordinary and partial differential equations. Each equation has at least one solution and each solution has at least one coloured graph. The coloured graphs reveal different features of the solutions. Some graphs are dynamical as for Clairaut differential equations. Thus one can study the general and the singular solutions. All the equations are solved by Mathematica. The first chapter contains mathematical notions and results that are used later through the book. Thus the book is self contained that is an advantage for the reader. The ordinary differential equations are treated in Chapters 2 to 4 while the partial differential equations are discussed in Chapters 5 to 10. The book is useful for undergraduate and graduate students for researchers in engineering, physics, chemistry and others. Chapter 9 treats parabolic partial differential equations while Chapter 10 treats third and higher order nonlinear partial differential equations both with modern methods. Chapter 10 discusses the Korteweg de Vries, Dodd-Bullough, Mikhailov, Tzitzeica, Dodd-Bullough, Benjamin, Kadomtsev-Petviashvili, Sawada, Kotera and Kaup-Kupershmidt equations.

[Partial Differential Equations: An Introduction With Mathematica And Maple \(2nd Edition\)](#) Ioannis P.

Stavroulakis, Stepan A Tersian, 2004-04-27 This textbook is a self contained introduction to partial differential equations. It has been designed for undergraduates and first year graduate students majoring in mathematics, physics, engineering or science. The text provides an introduction to the basic equations of mathematical physics and the properties of their solutions based on classical calculus and ordinary differential equations. Advanced concepts such as weak solutions and discontinuous solutions of nonlinear conservation laws are also considered.

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Symmetry Analysis of Differential Equations with Mathematica® Gerd Baumann,2013-11-21 The purpose of this book is to provide the reader with a comprehensive introduction to the applications of symmetry analysis to ordinary and partial differential equations The theoretical background of physics is illustrated by modern methods of computer algebra The presentation of the material in the book is based on Mathematica 3.0 note books The entire printed version of this book is available on the accompanying CD The text is presented in such a way that the reader can interact with the calculations and experiment with the models and methods Also contained on the CD is a package called MathLie in honor of Sophus Lie carrying out the calculations automatically The application of symmetry analysis to problems from physics mathematics and engineering is demonstrated by many examples The study of symmetries of differential equations is an old subject Thanks to Sophus Lie we today have available to us important information on the behavior of differential equations Symmetries can be used to find exact solutions Symmetries can be applied to verify and to develop numerical schemes They can provide conservation laws for differential equations The theory presented here is based on Lie containing improvements and generalizations made by later mathematicians who rediscovered and used Lie's work The presentation of Lie's theory in connection with Mathematica is novel and vitalizes an old theory The extensive symbolic calculations necessary under Lie's theory are supported by MathLie a package written in Mathematica

Introduction to Partial Differential Equations for Scientists and Engineers Using Mathematica Kuzman Adzievski,Abul Hasan Siddiqi,2016-04-19 With special emphasis on engineering and science applications this textbook provides a mathematical introduction to the field of partial differential equations PDEs The text represents a new approach to PDEs at the undergraduate level by presenting computation as an integral part of the study of differential equations The authors use the computer software Mathematica R along with graphics to improve understanding and interpretation of concepts The book also presents solutions to selected examples as well as exercises in each chapter Topics include Laplace and Fourier transforms as well as Sturm Liouville Boundary Value Problems

NUMERICAL SOLUTIONS OF PARTIAL DIFFERENTIAL EQUATIONS USING FINITE DIFFERENCE METHOD AND MATHEMATICA SUJAUL CHOWDHURY,PONKOG KUMAR DAS,2019-01-14 The book is

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Differential Equations with Mathematica Martha L. Abell, James P. Braselton, 1997 The second edition of this groundbreaking book integrates new applications from a variety of fields especially biology physics and engineering The new handbook is also completely compatible with Mathematica version 3.0 and is a perfect introduction for Mathematica beginners The CD ROM contains built in commands that let the users solve problems directly using graphical solutions

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Stanley J. Farlow, 1993-01-01 This highly useful text shows the reader how to formulate a partial differential equation from the physical problem and how to solve the equation

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Applied Partial Differential Equations J.

David Logan, 2004-05-11 This text is written for the standard one semester undergraduate course in elementary partial differential equations The topics include derivations of some of the standard equations of mathematical physics including the heat equation the wave equation and Laplace's equation and methods for solving those equations on bounded and unbounded domains Methods include eigenfunction expansions or separation of variables and methods based on Fourier and Laplace

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