

# 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

**Prem K. Kythe, Michael R.  
Schäferkotter, Pratap Puri**

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*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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include more exercises An entire chapter on boundary value problems More on inverse operators Legendre functions and Bessel functions Simplified treatment of Green's functions that make it more accessible to undergraduates A section on the numerical computation of Green's functions Mathematica codes for solving most of the problems discussed Boundary value problems from continuum mechanics particularly on boundary layers and fluctuating flows Wave propagation and dispersion With its emphasis firmly on solution methods this book is ideal for any mathematics curricula It succeeds not only in preparing readers to meet the challenge of PDEs but also in imparting the inherent beauty and applicability of the subject

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facilitates a deeper understanding of the subject Among a big number of CAS we choose the two systems Maple and Mathematica that are used worldwide by students research mathematicians scientists and engineers As in the our previous books we propose the idea to use in parallel both systems Maple and Mathematica since in many research problems frequently it is required to compare independent results obtained by using different computer algebra systems Maple and or Mathematica at all stages of the solution process One of the main points related to CAS is based on the implementation of a whole solution method e g starting from an analytical derivation of exact governing equations constructing discretizations and analytical formulas of a numerical method performing numerical procedure obtaining various visualizations and comparing the numerical solution obtained with other types of solutions considered in the book e g with asymptotic solution

**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

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**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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transforms      **Numerical Solutions for Partial Differential Equations** Gordon Dennis Smith,1969      **Partial Differential Equations With Mathematica** D. Wedensky,      **Partial Differential Equations** George F. Carrier,Carl E. Pearson,1988 This is the second edition of the well established text in partial differential equations emphasizing modern practical solution techniques This updated edition includes a new chapter on transform methods and a new section on integral equations in the numerical methods chapter The authors have also included additional exercises      *Partial Differential Equations ,1999*

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