

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

Liying Dong

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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Kythe, Michael R. Schäferkotter, Pratap Puri, 2002-11-12 Early training in the elementary techniques of partial differential equations is invaluable to students in engineering and the sciences as well as mathematics. However, to be effective an undergraduate introduction must be carefully designed to be challenging yet still reasonable in its demands. Judging from the first edition's popularity, instructors and students agree that despite the subject's complexity, it can be made fairly easy to understand. Revised and updated to reflect the latest version of Mathematica, *Partial Differential Equations and Boundary Value Problems with Mathematica*, Second Edition, meets the needs of mathematics, science, and engineering students even better. While retaining systematic coverage of theory and applications, the authors have made extensive changes that improve the text's accessibility, thoroughness, and practicality. New in this edition: Upgraded and expanded Mathematica sections that

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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Partial Differential Equations with Mathematica Dimitri Dimitrievich Vvedensky, 1993 An introduction to linear and nonlinear partial differential equations with extensive use of the popular computational mathematics computer program Mathematica to illustrate techniques and solutions and to provide examples that in many cases would not be practical otherwise No prior knowledge of **Numerical Solutions for Partial Differential Equations** Victor Grigor'e Ganzha, Evgenii Vasilev Vorozhtsov, 1996-07-12 Partial differential equations PDEs play an important role in the natural sciences and technology because they describe the way systems natural and other behave The inherent suitability of PDEs to characterizing the nature motion and evolution of systems has led to their wide ranging use in numerical models that are developed in order to analyze systems that are not otherwise easily studied Numerical Solutions for Partial Differential Equations contains all the details necessary for the reader to understand the principles and applications of advanced numerical methods for solving PDEs In addition it shows how the modern computer system algebra Mathematica can be used for the analytic investigation of such numerical properties as stability approximation and dispersion **Solving Nonlinear Partial Differential Equations with Maple and Mathematica** Inna Shingareva, Carlos Lizárraga-Celaya, 2011-07-24 The emphasis of the book is given in how to construct different types of solutions exact approximate analytical numerical graphical of numerous nonlinear PDEs correctly easily and quickly The reader can learn a wide variety of techniques and solve numerous nonlinear PDEs included and many other differential equations simplifying and transforming the equations and solutions arbitrary functions and parameters presented in the book Numerous comparisons and relationships between various types of solutions different methods and approaches are provided the results obtained in Maple and Mathematica

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

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

intended for graduate students of Engineering Mathematics and Physics We have numerically solved Hyperbolic and Parabolic partial differential equations with various initial conditions using Finite Difference Method and Mathematica Replacing derivatives by finite difference approximations in these differential equations in conjunction with boundary conditions and initial conditions lead to equations relating numerical solutions at various position and time These relations are intricate in that numerical value of the solution at one particular position and time is related with that at several other position and time We have surmounted the intricacies by writing programs in Mathematica 6.0 that neatly provide systematic tabulation of the numerical values for all necessary position and time This enabled us to plot the solutions as functions of position and time Comparison with analytic solutions revealed nearly perfect match in every case We have demonstrated conditions under which the nearly perfect match can be obtained even for larger increments in position or time

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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Partial Differential Equations for Scientists and Engineers

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

Introduction to Partial Differential Equations with

Applications E. C. Zachmanoglou, Dale W. Thoe, 1986-01-01 This text explores the essentials of partial differential equations as applied to engineering and the physical sciences Discusses ordinary differential equations integral curves and surfaces of vector fields the Cauchy Kovalevsky theory more Problems and answers

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

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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