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# DIFFERENTIAL EQUATIONS

SOLVING ORDINARY AND PARTIAL DIFFERENTIAL  
EQUATIONS WITH MATHEMATICA

# Differential Equations With Mathematica

**Ioannis P. Stavroulakis, Stepan A.  
Tersian**



## **Differential Equations With Mathematica:**

Introduction to Ordinary Differential Equations with Mathematica Alfred Gray, Michael Mezzino, Mark A.

Pinsky, 1997-06-20 These materials developed and thoroughly class tested over many years by the authors are for use in courses at the sophomore junior level A prerequisite is the calculus of one variable although calculus of several variables and linear algebra are recommended The text covers the standard topics in first and second order equations power series solutions first order systems Laplace transforms numerical methods and stability of non linear systems Liberal use is made of programs in Mathematica both for symbolic computations and graphical displays The programs are described in separate sections as well as in the accompanying Mathematica notebooks However the book has been designed so that it can be read with or without Mathematica and no previous knowledge of Mathematica is required The CD ROM contains the Mathematica solution of worked examples a selection of various Mathematica notebooks Mathematica movies and sample labs for students Mathematica programs and additional problem example files will be available online through the TELOS Web site and the authors dedicated web site

**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

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*Differential Equations with Mathematica* Martha L. Abell, James P. Braselton, 2016-09-19 Differential Equations with Mathematica Fourth Edition is a supplementing reference which uses the fundamental concepts of the popular platform to solve analytically numerically and or graphically differential equations of interest to students instructors and scientists Mathematica s diversity makes it particularly well suited to performing calculations encountered when solving many ordinary and partial differential equations In some cases Mathematica s built in functions can immediately solve a differential

equation by providing an explicit implicit or numerical solution In other cases mathematica can be used to perform the calculations encountered when solving a differential equation Because one goal of elementary differential equations courses is to introduce students to basic methods and algorithms so that they gain proficiency in them nearly every topic covered this book introduces basic commands also including typical examples of their application A study of differential equations relies on concepts from calculus and linear algebra so this text also includes discussions of relevant commands useful in those areas In many cases seeing a solution graphically is most meaningful so the book relies heavily on Mathematica's outstanding graphics capabilities Demonstrates how to take advantage of the advanced features of Mathematica 10 Introduces the fundamental theory of ordinary and partial differential equations using Mathematica to solve typical problems of interest to students instructors scientists and practitioners in many fields Showcases practical applications and case studies drawn from biology physics and engineering

**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 notebooks 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 Ordinary Differential Equations with Mathematica® Alfred Gray, Mike Mezzino, Mark Pinsky, 1998-06-01 The purpose of this companion volume to our text is to provide instructors and eventually students with some additional information to ease the learning process while further documenting the implementations of Mathematica and ODE In an ideal world this volume would not be necessary since we have systematically worked to make the text unambiguous and directly useful by providing in the text worked examples of every technique which is discussed at the theoretical level However in our teaching we have found that it is helpful to have further documentation of the various solution techniques introduced in the text The subject of differential equations is particularly well suited to self study since one can always verify by hand calculation whether or not a

given proposed solution is a bona fide solution of the differential equation and initial conditions Accordingly we have not reproduced the steps of the verification process in every case rather content with the illustration of some basic cases of verification in the text As we state there students are strongly encouraged to verify that the proposed solution indeed satisfies the requisite equation and supplementary conditions      Scientific Computing with Mathematica® Addolorata Marasco, Antonio Romano, 2001-08-09 CD ROM includes Mathematica files ODE m and 11 notebooks Chapter1 nb Chapter10 nb and Package nb      *Introduction to Ordinary Differential Equations with Mathematica®* Alfred Gray, Mike Mezzino, Mark Pinsky, 1998-10-02 The purpose of this companion volume to our text is to provide instructors and eventually students with some additional information to ease the learning process while further documenting the implementations of Mathematica and ODE In an ideal world this volume would not be necessary since we have systematically worked to make the text unambiguous and directly useful by providing in the text worked examples of every technique which is discussed at the theoretical level However in our teaching we have found that it is helpful to have further documentation of the various solution techniques introduced in the text The subject of differential equations is particularly well suited to self study since one can always verify by hand calculation whether or not a given proposed solution is a bona fide solution of the differential equation and initial conditions Accordingly we have not reproduced the steps of the verification process in every case rather content with the illustration of some basic cases of verification in the text As we state there students are strongly encouraged to verify that the proposed solution indeed satisfies the requisite equation and supplementary conditions      **Partial Differential Equations and Mathematica** Prem K. Kythe, Michael R. Schäferkotter, Pratap Puri, 2018-10-03 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

**Differential Equations with Mathematica** Kevin Robert

Coombes,1995

**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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Stavroulakis, Stepan A. Tersian, 2004 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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**Differential Equations with Mathematica, Revised for Mathematica 3.0** Kevin R. Coombes, 1998-01-05 This book changes the emphasis in the traditional ordinary differential equations ODE course by using a mathematical software system to introduce numerical methods geometric interpretation symbolic computation and qualitative analysis into the course in a basic way Includes concise instructions for using Mathematica on three popular computer platforms Windows Macintosh and the X Window System It focuses on the specific features of Mathematica that are useful for analyzing differential equations and it also describes the features of the Mathematica Notebook interface that are necessary for creating a finished document

**Differential Equations with Mathematica** Brian R. Hunt, Ronald L. Lipsman, John E. Osborn, Donald A. Outing, Jonathan M. Rosenberg, 2009-01-09 Differential Equations with Mathematica 3e is a supplemental text that can enrich and enhance any first course in ordinary differential equations Designed to accompany Wiley s ODE texts written by Brannan Boyce Boyce DiPrima Borrelli Coleman and Lomen Lovelock this supplement helps instructors move towards an earlier use of numerical and geometric methods place a greater emphasis on systems including nonlinear ones and increase discussions of both the benefits and possible pitfalls in numerical solution of ODEs By providing an introduction to the software that is integrated with the relevant mathematics Differential Equations with Mathematica can bring students to a level of expertise in the mathematical software system that will allow them to use it in other mathematics engineering or science courses

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