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DIFFERENTIAL EQUATIONS

SOLVING ORDINARY AND PARTIAL DIFFERENTIAL
EQUATIONS WITH MATHEMATICA

Differential Equations With Mathematica

Dimitri Dimitrievich Vvedensky



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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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Partial Differential Equations Ioannis P. 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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VisualDSolve Dan Schwalbe, S. Wagon, Stan Wagon, 1997-01-17 This book software package is a comprehensive Mathematica package for the visualization of solutions to ordinary differential equations It includes well known DE visualization tools such as solution plots and orbits as well as some new ideas such as the modeling of shaded gray regions in the phase plane VisualDSolve is an excellent resource for anyone seeking a greater understanding of solutions to ordinary differential equations

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, 2017-11-22 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

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