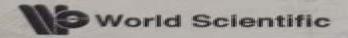
Partial Differential Equations

An Introduction with Mathematica and Maple

2nd Edition

Ioannis P Stavroulakis Stepan A Tersian





Partial Differential Equations With Mathematica

Ioannis P Stavroulakis, Stepan A Tersian

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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 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 modem 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 en gineering 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 improve ments 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 Introduction to Partial Differential Equations for Scientists and Engineers Using Mathematica Kuzman Mathematica Adzievski, Abul Hasan Siddiqi, 2013-10-23 With a special emphasis on engineering and science applications this textbook provides a mathematical introduction to PDEs at the undergraduate level It takes a new approach to PDEs by presenting computation as an integral part of the study of differential equations. The authors use Mathematica along with graphics to improve understanding and interpretation of concepts They also present exercises in each chapter and solutions to selected examples Topics discussed include Laplace and Fourier transforms as well as Sturm Liouville boundary value problems

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