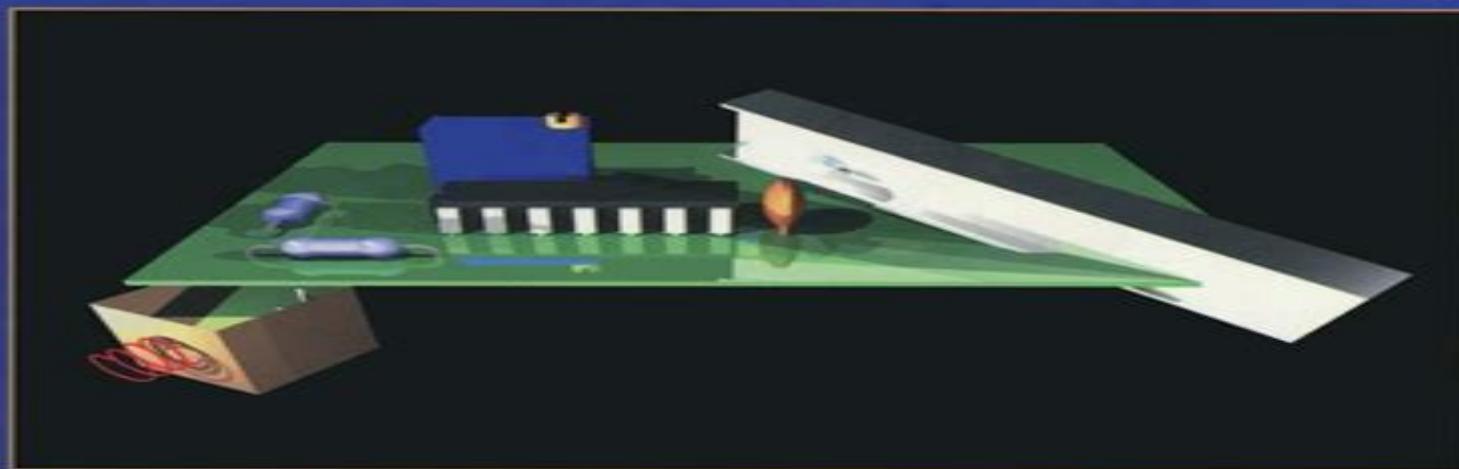


DIFFERENTIAL EQUATIONS WITH MAPLE

AN INTERACTIVE APPROACH



JON H. DAVIS

BIRKHÄUSER

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Differential Equations Robert P. Gilbert, George C. Hsiao, Robert J. Ronkese, 2021 This book illustrates how MAPLE can be used to supplement a standard elementary text in ordinary and partial differential equation MAPLE is used with several purposes in mind The authors are firm believers in the teaching of mathematics as an experimental science where the student does numerous calculations and then synthesizes these experiments into a general theory Projects based on the concept of writing generic programs test a student's understanding of the theoretical material of the course A student who can solve a general problem certainly can solve a specialized problem The authors show MAPLE has a built in program for doing these problems While it is important for the student to learn MAPLE S in built programs

using these alone removes the student from the conceptual nature of differential equations The goal of the book is to teach the students enough about the computer algebra system MAPLE so that it can be used in an investigative way The investigative materials which are present in the book are done in desk calculator mode DCM that is the calculations are in the order command line followed by output line Frequently this approach eventually leads to a program or procedure in MAPLE designated by proc and completed by end proc This book was developed through ten years of instruction in the differential equations course

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The Maple O.D.E. Lab Book Darren Redfern, Edgar Chandler, Ed Chandler, 1996-10-10 This book and disk package is a supplement to any of the currently existing introductory texts on Ordinary Differential Equations And uses Maple V Release 4 as a computational tool to further understanding and increase ability

Introduction To Partial Differential Equations (With Maple), An: A Concise Course Zhilin Li, Larry Norris, 2021-09-23 The book is designed for undergraduate or beginning level graduate students and students from interdisciplinary areas including engineers and others who need to use partial differential equations Fourier series Fourier and Laplace transforms The prerequisite is a basic knowledge of calculus linear algebra and ordinary differential equations The textbook aims to be practical elementary and reasonably rigorous the book is concise in that it describes fundamental solution techniques for first order second order linear partial differential equations for general solutions fundamental solutions solution to Cauchy initial value problems and boundary value problems for different PDEs in one and two

dimensions and different coordinates systems Analytic solutions to boundary value problems are based on Sturm Liouville eigenvalue problems and series solutions The book is accompanied with enough well tested Maple files and some Matlab codes that are available online The use of Maple makes the complicated series solution simple interactive and visible These features distinguish the book from other textbooks available in the related area *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 **Differential Equations with Maple** Coombes, 1997-10-02 *Differential Equations* Robert P. Gilbert, George C. Hsiao, Robert J. Ronkese, 2021-06-28 This book illustrates how MAPLETM can be used to supplement a standard elementary text in ordinary and partial differential equation The authors are firm believers in the teaching of mathematics as an experimental science where the student does numerous calculations and then synthesizes these experiments into a general theory The goal of the book is to teach the students enough about the computer algebra system MAPLETM so that it can be used in an investigative way This book was developed through ten years of instruction in the differential equations course **Ordinary Differential Equations** Radu Precup, 2017-10-15 Precup s introduction into Ordinary Differential Equations combines models arising in physics and biology for motivation with rigorous reasoning in describing the theory of ODEs and applications and computer simulations with Maple While offering a concise course of the theory of ODEs it enables the reader to enter thie field of computer simulations Thus it is a valuable read for students of mathematics as well as physics and engineering *Differential Equations with Maple V* Martha L. Abell, James P. Braselton, 2000 *Multivariable Mathematics with Maple* James A. Carlson, Jennifer M. Johnson, 1997 *Solving ODEs with Maple V* David Barrow, 1996 This resource manual laboratory book shows students how

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Table of Contents Differential Equations With Maple

1. Understanding the eBook Differential Equations With Maple
 - The Rise of Digital Reading Differential Equations With Maple
 - Advantages of eBooks Over Traditional Books
2. Identifying Differential Equations With Maple
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Differential Equations With Maple
 - User-Friendly Interface

4. Exploring eBook Recommendations from Differential Equations With Maple
 - Personalized Recommendations
 - Differential Equations With Maple User Reviews and Ratings
 - Differential Equations With Maple and Bestseller Lists
5. Accessing Differential Equations With Maple Free and Paid eBooks
 - Differential Equations With Maple Public Domain eBooks
 - Differential Equations With Maple eBook Subscription Services
 - Differential Equations With Maple Budget-Friendly Options
6. Navigating Differential Equations With Maple eBook Formats
 - ePub, PDF, MOBI, and More
 - Differential Equations With Maple Compatibility with Devices
 - Differential Equations With Maple Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Differential Equations With Maple
 - Highlighting and Note-Taking Differential Equations With Maple
 - Interactive Elements Differential Equations With Maple
8. Staying Engaged with Differential Equations With Maple
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Differential Equations With Maple
9. Balancing eBooks and Physical Books Differential Equations With Maple
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Differential Equations With Maple
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Differential Equations With Maple
 - Setting Reading Goals Differential Equations With Maple
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Differential Equations With Maple
 - Fact-Checking eBook Content of Differential Equations With Maple
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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