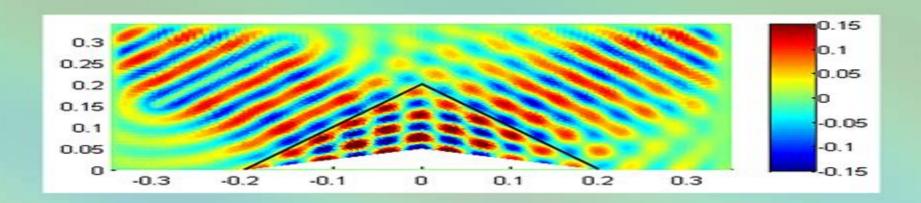
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COMPUTATIONAL PARTIAL DIFFERENTIAL EQUATIONS USING MATLAB® SECOND EDITION



Jichun Li Yi-Tung Chen



Differential Equations With Matlab

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Differential Equations With Matlab:

Differential Equations with MATLAB Mark McKibben, Micah D. Webster, 2014-09-08 A unique textbook for an undergraduate course on mathematical modeling Differential Equations with MATLAB Exploration Applications and Theory provides students with an understanding of the practical and theoretical aspects of mathematical models involving ordinary and partial differential equations ODEs and PDEs The text presents a unifying picture inherent to the study and analysis of more than 20 distinct models spanning disciplines such as physics engineering and finance. The first part of the book presents systems of linear ODEs. The text develops mathematical models from ten disparate fields including pharmacokinetics chemistry classical mechanics neural networks physiology and electrical circuits Focusing on linear PDEs the second part covers PDEs that arise in the mathematical modeling of phenomena in ten other areas including heat conduction wave propagation fluid flow through fissured rocks pattern formation and financial mathematics. The authors engage students by posing questions of all types throughout including verifying details proving conjectures of actual results analyzing broad strokes that occur within the development of the theory and applying the theory to specific models The authors accessible style encourages students to actively work through the material and answer these questions. In addition the extensive use of MATLAB GUIs allows students to discover patterns and make conjectures Ordinary Differential Equations Using MATLAB Introduction to Partial Differential Equations with MATLAB Jeffery M. Cooper, 2012-12-06 Overview John C. Polking, 2009 The subject of partial differential equations has an unchanging core of material but is constantly expanding and evolving The core consists of solution methods mainly separation of variables for boundary value problems with constant coeffi cients in geometrically simple domains Too often an introductory course focuses exclusively on these core problems and techniques and leaves the student with the impression that there is no more to the subject Questions of existence uniqueness and well posedness are ignored In particular there is a lack of connection between the analytical side of the subject and the numerical side Furthermore nonlinear problems are omitted because they are too hard to deal with analytically Now however the availability of convenient powerful computational software has made it possible to enlarge the scope of the introductory course My goal in this text is to give the student a broader picture of the subject In addition to the basic core subjects I have included material on nonlinear problems and brief discussions of numerical methods I feel that it is important for the student to see nonlinear problems and numerical methods at the beginning of the course and not at the end when we run usually run out of time Furthermore numerical methods should be introduced for each equation as it is studied not lumped together in a final chapter Ordinary Differential Equations Using MATLAB John C. Polking, David Arnold, 1999 Differential Equations with Matlab Brian R. Hunt, Ronald L. Lipsman, John E. Osborn, Jonathan M. Rosenberg, 2019-09-24 A supplemental text that can enrich and enhance any first course in ordinary differential equations 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 MATLAB can perfectly complement and enhance other texts from Wiley Since the third edition of Differential Equations with MATLAB first appeared in 2012 there have been many changes and enhancements to MATLAB and Simulink These include addition of live scripts new plotting commands and major changes to the Symbolic Math Toolbox This revised version brings the text completely up to date with the 2019a release of MATLAB Calculus and Differential Equations with MATLAB Pramote Dechaumphai, 2016-06-30 Calculus and Differential Equations with MATLAB presents a clear easy to understand on how to use MATLAB to solve calculus and differential equation problems The book contains eleven chapters with essential materials that are taught in calculus and differential equation courses These include Limits differentiation and integration Taylor maclaurin and other infinite series Ordinary differential equations Laplace and Fourier transforms Partial differential equations Numerical and finite element methods Special functions error gamma beta Bessel Airy Legendre etc Exact solutions are derived before showing MATLAB commands to provide the same solutions Numerical methods are used to obtain approximate solutions when exact solutions are not available The book contains a large number of examples and homework problems to demonstrate the capability of symbolic mathematics in MATLAB for solving calculus and differential Differential Equation Solutions with MATLAB® Dingyü Xue, 2020-04-06 This book focuses the equation problems solutions of differential equations with MATLAB Analytical solutions of differential equations are explored first followed by the numerical solutions of different types of ordinary differential equations ODEs as well as the universal block diagram based schemes for ODEs Boundary value ODEs fractional order ODEs and partial differential equations are also discussed

Differential Equations with Matlab. Examples and Exercises Cesar Perez Lopez, 2013-11 MATLAB is a platform for scientific computing that allows to work in virtually all areas of experimental sciences and engineering Logically this software allows to work in the field of differential equations presenting quite extensive capabilities. The number of commands that implements relating to differential equations Matlab is quite high and very efficient. In addition it is possible to continue with the program methods manual resolution algebraic already known for each type of differential equation Approximate methods of resolution of equations systems of differential equations and differential equations in partial derivatives are also implemented. This book addresses all these materials to develop the following topics. Introduction practices to matlab. Numerical calculus with matlab Symbolic calculus with matlab Matlab and maple Graphics with matlab General notation. Help with commands Escape and exit to the environment ms dos commands Matlab and programming. First order differential equations Exact equations separate variables homogeneous and linear equations. First order differential equations in separated variables. Homogeneous differential equations Exact differential equations Linear differential equations. Differential equations of order superior Transformed of laplace and special types of equations.

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