Example: Solve for y(t) in the following first-order DE if $y(0) = 8$

$$\frac{dy}{dt} + 10y(t) = 20, t \geq 0 \quad \Rightarrow \quad Answer: \ v(t) = v_n + v_f = 6e^{-10t} + 2\,V, \ t \geq 0$$

MATLAB Solution:

```
% filename:  DiffEq1.m
% Solution to 1st order DE from class using MATLAB
disp('Solution without initial condition: ')
dsolve('Dy + 10*y = 20')
disp('Solution with initial condition: ')
syms DE1 IC1
DE1 = 'Dy + 10*y = 20'
IC1 = 'y(0) = 8'
Solution1 = dsolve(DE1,IC1)
```

```
EDU>> DiffEq1
Solution without initial condition:
ans =
C4/exp(10*t) + 2
Solution with initial condition:
DE1 =
Dy + 10*y = 20
IC1 =
y(0) = 8
Solution1 =
6/exp(10*t) + 2
```

Using Matlab For Differential Equations

Brian R. Hunt,Ronald L. Lipsman,John E. Osborn,Jonathan M. Rosenberg

Using Matlab For Differential Equations:

   Differential Equation Solutions with MATLAB® Dingyü Xue,2020-04-06 This book focuses the 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 **Introduction to Numerical Ordinary and Partial Differential Equations Using MATLAB** Alexander Stanoyevitch,2011-10-14
   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   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   **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 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 Ordinary high order equations Linear higher order equations Homogeneous in constant coefficients equations Equations in constant coefficient homogeneous Variation of parameters Non homogeneous equations with variable coefficients Cauchy euler equations Laplace transformed Orthogonal polynomials Bessel and airy functions Differential equations for aproximate methods Equations with superior order and grade linear and nonlinear approximate methods Taylor series method Runge kutta method Systems differential equations and equations in finite differences Systems homogeneous linear equations with constant coefficients Systems of equations and linear not homo disposed with constant coefficients Equations in finite differences Differential equations in partial derivatives Numerical calclus with matlab Applications to differential equations Matlab and programming Text editor Scripts Functions and m ficheros Function eval and feval Local and global variables Data types Bucles for while e if elseif The for loop The while loop If elseif else end loop Switch and case Continue Break Try Catch Return Subfeatures Ordinary differential equations using methods of numerical calculus Euler method Heun method The taylor series method Equations in difference with the initial values values on the border and in partial derivatives Solution numerical differential equations Ordinary differential equations with initial values Ordinary differential equations with values in the border Differential equations in partial derivatives   *Ordinary Differential Equations Using MATLAB* John C. Polking,2009   *Solving ODEs with MATLAB* L. F. Shampine,I. Gladwell,S. Thompson,2003-04-28 This concise text first published in 2003 is for a one semester course for upper level undergraduates and beginning graduate students in engineering science and mathematics and can also serve as a quick reference for professionals The major topics in ordinary differential equations initial value problems boundary value problems and delay differential equations are usually taught in three separate semester long courses This single book provides a sound treatment of all three in fewer than 300 pages Each chapter begins with a discussion of the facts of life for the problem mainly by means of examples Numerical methods for the problem are then developed but only those methods most widely used The treatment of each method is brief and technical issues are minimized but all the issues important in practice and for

understanding the codes are discussed The last part of each chapter is a tutorial that shows how to solve problems by means of small but realistic examples *Introduction to Partial Differential Equations with MATLAB* Jeffery M. Cooper,2012-12-06 Overview 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 Introduction to Chemical Engineering Computing Bruce A. Finlayson,2006-02-10 An innovative introduction to chemical engineering computing As chemical engineering technology advances so does the complexity of the problems that arise The problemsthat chemical engineers and chemical engineering students face today can no longer be answered with programs written on a case by case basis Introduction to Chemical Engineering Computing teaches professionalsand students the kinds of problems they will have to solve the types of computer programs needed to solve these problems and how to ensure that the problems have been solved correctly Each chapter in Introduction to Chemical Engineering Computing contains a description of the physicalproblem in general terms and in a mathematical context thorough step by step instructions numerous examples and comprehensive explanations for each problem and program This indispensable text features Excel MATLAB r Aspen PlusTM and FEMLAB programs and acquaints readers with the advantages of each Perfect for students and professionals Introduction to Chemical Engineering Computing gives readers the professional tools they need to solve real world problems involving Equations of state Vapor liquid and chemical reaction equilibria Mass balances with recycle streams Mass transfer equipment Process simulation Chemical reactors Transfer processes in 1D Fluid flow in 2D and 3D Convective diffusion equations in 2D and 3D **An Introduction to Differential Equations Using MATLAB** Rizwan Butt,2016 An Introduction to Differential Equations using MATLAB exploits the symbolic numerical and graphical capabilities of MATLAB to develop a thorough understanding of differential equations algorithms **Dynamical Systems with Applications using MATLAB®** Stephen Lynch,2004-06-10 This introduction to dynamical systems theory guides readers through theory via example and the graphical MATLAB interface the SIMULINK accessory is

used to simulate real world dynamical processes Examples included are from mechanics electrical circuits economics population dynamics epidemiology nonlinear optics materials science and neural networks The book contains over 330 illustrations 300 examples and exercises with solutions **Computational Partial Differential Equations Using MATLAB** Jichun Li,Yi-Tung Chen,2008-10-20 This textbook introduces several major numerical methods for solving various partial differential equations PDEs in science and engineering including elliptic parabolic and hyperbolic equations It covers traditional techniques that include the classic finite difference method and the finite element method as well as state of the art numerical *Computational Partial Differential Equations Using MATLAB®* Jichun Li,Yi-Tung Chen,2019-09-26 In this popular text for an Numerical Analysis course the authors introduce several major methods of solving various partial differential equations PDEs including elliptic parabolic and hyperbolic equations It covers traditional techniques including the classic finite difference method finite element method and state of the art numercial methods The text uniquely emphasizes both theoretical numerical analysis and practical implementation of the algorithms in MATLAB This new edition includes a new chapter Finite Value Method the presentation has been tightened new exercises and applications are included and the text refers now to the latest release of MATLAB Key Selling Points A successful textbook for an undergraduate text on numerical analysis or methods taught in mathematics and computer engineering This course is taught in every university throughout the world with an engineering department or school Competitive advantage broader numerical methods including finite difference finite element meshless method and finite volume method provides the MATLAB source code for most popular PDEs with detailed explanation about the implementation and theoretical analysis No other existing textbook in the market offers a good combination of theoretical depth and practical source codes **Advanced Mathematics and Mechanics Applications Using MATLAB** David Halpern,Howard B. Wilson,Louis H. Turcotte,2002-09-17 Advanced Mathematics and Mechanics Applications Using MATLAB Third Edition features extensive revisions that bring this best selling text in line with MATLAB 6 x especially its graphics and animation capabilities It incorporates material on time dependent solutions of linear partial differential equations a chapter on eigenvalue problems and more than 300 pages of MATLAB solutions to important applications The authors provide an abundance of additional physical examples related to heat conduction inviscid fluid flow geometrical properties stress analysis and multi dimensional optimizations The source code for all of the programs presented is freely available for download from the CRC website **MATLAB Differential Equations** Cesar Lopez,2014-09-22 MATLAB is a high level language and environment for numerical computation visualization and programming Using MATLAB you can analyze data develop algorithms and create models and applications The language tools and built in math functions enable you to explore multiple approaches and reach a solution faster than with spreadsheets or traditional programming languages such as C C or Java MATLAB Differential Equations introduces you to the MATLAB language with practical hands on instructions and results allowing you to quickly achieve your goals In

addition to giving an introduction to the MATLAB environment and MATLAB programming this book provides all the material needed to work on differential equations using MATLAB It includes techniques for solving ordinary and partial differential equations of various kinds and systems of such equations either symbolically or using numerical methods Euler s method Heun s method the Taylor series method the Runge Kutta method It also describes how to implement mathematical tools such as the Laplace transform orthogonal polynomials and special functions Airy and Bessel functions and find solutions of finite difference equations **Differential Equations** Kevin R. Coombes,Brian R. Hunt,Ronald L. Lipsman,John E. Osborn,Garrett J. Stuck,1999-06-02 **MATLAB Manual, Ordinary Differential Equations** John C. Polking,1995 *Ordinary Differential Equations Using MATLAB* John C. Polking,David Arnold,1999 A textbook of Engineering Mathematics Part 2 Prof (Dr) Basant Kumar Singh,Dr Sushil Kumar jamariar,Dr Dinesh Singh,2025-03-31 Master the fundamental concepts of Ordinary Differential Equations Partial Differential Equations Fourier Series Complex Variables and Vector Calculus with this well structured and student friendly textbook Designed specifically for B Tech first year students this book provides clear explanations step by step derivations and practical applications to strengthen mathematical problem solving skills Key Features Detailed Coverage Covers essential topics like Second Order Linear Differential Equations Legendre Polynomials Fourier Transforms and Residue Theorem Conceptual Clarity Simplifies complex mathematical concepts with easy to follow explanations and examples Real World Applications Demonstrates the practical relevance of mathematical theories in engineering Problem Solving Approach Includes previous years exam questions to help students prepare effectively Comprehensive Exercises Offers a variety of solved and unsolved problems for practice Perfect for engineering students competitive exam aspirants and mathematics enthusiasts this book serves as an essential resource for mastering the mathematical foundations required for technical studies Enhance your mathematical proficiency and excel in your exams with this indispensable guide **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 equation problems

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