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CHAPTER 1

1.1 You are given the following differential equation with the initial condition, $v(t = 0) = 0$,

$$\frac{dv}{dt} = g - \frac{c_d}{m} v^2$$

Multiply both sides by m/c_d

$$\frac{m dv}{c_d dt} = \frac{m}{c_d} g - v^2$$

Define $a = \sqrt{mg / c_d}$

$$\frac{m dv}{c_d dt} = a^2 - v^2$$

Integrate by separation of variables,

$$\int \frac{dv}{a^2 - v^2} = \int \frac{c_d dt}{m}$$

A table of integrals can be consulted to find that

$$\int \frac{dx}{a^2 - x^2} = \frac{1}{a} \tanh^{-1} \frac{x}{a}$$

Therefore, the integration yields

$$\frac{1}{a} \tanh^{-1} \frac{x}{a} = \frac{c_d}{m} t + C$$

If $v = 0$ at $t = 0$, then because $\tanh^{-1}(0) = 0$, the constant of integration $C = 0$ and the solution is

$$\frac{1}{a} \tanh^{-1} \frac{x}{a} = \frac{c_d}{m} t$$

This result can then be rearranged to yield

$$v = \sqrt{\frac{2mg}{c_d}} \tanh \left(\sqrt{\frac{2c_d}{m}} t \right)$$

Applied Numerical Methods With Matlab Solutions

**Won Y. Yang, Wenwu Cao, Tae-Sang
Chung, John Morris**



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Applied Numerical Methods with MATLAB for Engineers and Scientists Steven C. Chapra, 2008 Still brief but with the chapters that you wanted Steven Chapra's new second edition is written for engineering and science students who need to learn numerical problem solving This text focuses on problem solving applications rather than theory using MATLAB throughout Theory is introduced to inform key concepts which are framed in applications and demonstrated using MATLAB The new second edition feature new chapters on Numerical Differentiation Optimization and Boundary Value Problems ODEs

Applied Numerical Methods Using MATLAB Won Y. Yang, Wenwu Cao, Tae-Sang Chung, John Morris, 2005-05-20 In recent years with the introduction of new media products there has been a shift in the use of programming languages from FORTRAN or C to MATLAB for implementing numerical methods This book makes use of the powerful MATLAB software to avoid complex derivations and to teach the fundamental concepts using the software to solve practical problems Over the years many textbooks have been written on the subject of numerical methods Based on their course experience the authors use a more practical approach and link every method to real engineering and or science problems The main benefit is that engineers don't have to know the mathematical theory in order to apply the numerical methods for solving their real life problems An Instructor's Manual presenting detailed solutions to all the problems in the book is available online

Numerical Methods for Engineers and Scientists Using MATLAB® Ramin S. Esfandiari, 2017-04-25 This book provides a pragmatic methodical and easy to follow presentation of numerical methods and their effective implementation using MATLAB which is introduced at the outset The author introduces techniques for solving equations of a single variable and systems of equations followed by curve fitting and interpolation of data The book also provides detailed coverage of numerical differentiation and integration as well as numerical solutions of initial value and boundary value problems The author then presents the numerical solution of the matrix eigenvalue problem which entails approximation of a few or all eigenvalues of a matrix The last chapter is devoted to numerical solutions of partial differential equations that arise in engineering and science Each method is accompanied by at least one fully worked out example showing essential details involved in preliminary hand calculations as well as computations in MATLAB *Applied Numerical Methods for Engineers Using MATLAB and C* Robert Joseph Schilling, Sandra L. Harris, 2000 This book provides a comprehensive discussion of numerical computing techniques with an emphasis on practical applications in the fields of civil chemical electrical and mechanical engineering It features two software libraries that implement the algorithms developed in the text a MATLAB toolbox and an ANSI C library This book is intended for undergraduate students Each chapter includes detailed case study examples from the four engineering fields with complete solutions provided in MATLAB and C detailed objectives numerous worked out examples and illustrations and summaries comparing the numerical techniques Chapter problems are divided

into separate analysis and computation sections Documentation for the software is provided in text appendixes that also include a helpful review of vectors and matrices The Instructor s Manual includes a disk with software documentation and complete solutions to both problems and examples in the book

Numerical Methods George Lindfield,John Penny,2018-10-10 The fourth edition of Numerical Methods Using MATLAB provides a clear and rigorous introduction to a wide range of numerical methods that have practical applications The authors approach is to integrate MATLAB with numerical analysis in a way which adds clarity to the numerical analysis and develops familiarity with MATLAB MATLAB graphics and numerical output are used extensively to clarify complex problems and give a deeper understanding of their nature The text provides an extensive reference providing numerous useful and important numerical algorithms that are implemented in MATLAB to help researchers analyze a particular outcome By using MATLAB it is possible for the readers to tackle some large and difficult problems and deepen and consolidate their understanding of problem solving using numerical methods Many worked examples are given together with exercises and solutions to illustrate how numerical methods can be used to study problems that have applications in the biosciences chaos optimization and many other fields The text will be a valuable aid to people working in a wide range of fields such as engineering science and economics Features many numerical algorithms their fundamental principles and applications Includes new sections introducing Simulink Kalman Filter Discrete Transforms and Wavelet Analysis Contains some new problems and examples Is user friendly and is written in a conversational and approachable style Contains over 60 algorithms implemented as MATLAB functions and over 100 MATLAB scripts applying numerical algorithms to specific examples

Numerical Methods for Chemical Engineering Kenneth J. Beers,2007 Applications of numerical mathematics and scientific computing to chemical engineering

Numerical Methods for Engineers Steven C. Chapra,Raymond P. Canale,2006 The fifth edition of Numerical Methods for Engineers continues its tradition of excellence Instructors love this text because it is a comprehensive text that is easy to teach from Students love it because it is written for them with great pedagogy and clear explanations and examples throughout The text features a broad array of applications including all engineering disciplines The revision retains the successful pedagogy of the prior editions Chapra and Canale s unique approach opens each part of the text with sections called Motivation Mathematical Background and Orientation preparing the student for what is to come in a motivating and engaging manner Each part closes with an Epilogue containing sections called Trade Offs Important Relationships and Formulas and Advanced Methods and Additional References Much more than a summary the Epilogue deepens understanding of what has been learned and provides a peek into more advanced methods Users will find use of software packages specifically MATLAB and Excel with VBA This includes material on developing MATLAB m files and VBA macros Approximately 80% of the problems are new or revised for this edition The expanded breadth of engineering disciplines covered is especially evident in the problems which now cover such areas as biotechnology and biomedical engineering

An Introduction to Numerical Methods Abdelwahab Kharab, Ronald Guenther, 2018-09-05 Previous editions of this popular textbook offered an accessible and practical introduction to numerical analysis An Introduction to Numerical Methods A MATLAB Approach Fourth Edition continues to present a wide range of useful and important algorithms for scientific and engineering applications The authors use MATLAB to illustrate each numerical method providing full details of the computed results so that the main steps are easily visualized and interpreted This edition also includes a new chapter on Dynamical Systems and Chaos Features Covers the most common numerical methods encountered in science and engineering Illustrates the methods using MATLAB Presents numerous examples and exercises with selected answers at the back of the book

Numerical Computing with MATLAB Cleve B. Moler, 2010-08-12 A revised textbook for introductory courses in numerical methods MATLAB and technical computing which emphasises the use of mathematical software *Applied Numerical Methods Using MATLAB* Won Y. Yang, Wenwu Cao, Jaekwon Kim, Kyung W. Park, Ho-Hyun Park, Jingon Jung, Jong-Suk Ro, Han L. Lee, Cheol-Ho Hong, Taeho Im, 2020-05-12 This new edition provides an updated approach for students engineers and researchers to apply numerical methods for solving problems using MATLAB This accessible book makes use of MATLAB software to teach the fundamental concepts for applying numerical methods to solve practical engineering and or science problems It presents programs in a complete form so that readers can run them instantly with no programming skill allowing them to focus on understanding the mathematical manipulation process and making interpretations of the results *Applied Numerical Methods Using MATLAB Second Edition* begins with an introduction to MATLAB usage and computational errors covering everything from input output of data to various kinds of computing errors and on to parameter sharing and passing and more The system of linear equations is covered next followed by a chapter on the interpolation by Lagrange polynomial The next sections look at interpolation and curve fitting nonlinear equations numerical differentiation integration ordinary differential equations and optimization Numerous methods such as the Simpson Euler Heun Runge kutta Golden Search Nelder Mead and more are all covered in those chapters The eighth chapter provides readers with matrices and Eigenvalues and Eigenvectors The book finishes with a complete overview of differential equations Provides examples and problems of solving electronic circuits and neural networks Includes new sections on adaptive filters recursive least squares estimation Bairstow s method for a polynomial equation and more Explains Mixed Integer Linear Programming MILP and DOA Direction of Arrival estimation with eigenvectors Aimed at students who do not like and or do not have time to derive and prove mathematical results *Applied Numerical Methods Using MATLAB Second Edition* is an excellent text for students who wish to develop their problem solving capability without being involved in details about the MATLAB codes It will also be useful to those who want to delve deeper into understanding underlying algorithms and equations **Practical Numerical and Scientific Computing with MATLAB® and Python** Eihab B. M. Bashier, 2020-03-18 Practical Numerical and Scientific Computing with MATLAB and Python concentrates on the practical

aspects of numerical analysis and linear and non linear programming It discusses the methods for solving different types of mathematical problems using MATLAB and Python Although the book focuses on the approximation problem rather than on error analysis of mathematical problems it provides practical ways to calculate errors The book is divided into three parts covering topics in numerical linear algebra methods of interpolation numerical differentiation and integration solutions of differential equations linear and non linear programming problems and optimal control problems This book has the following advantages It adopts the programming languages MATLAB and Python which are widely used among academics scientists and engineers for ease of use and contain many libraries covering many scientific and engineering fields It contains topics that are rarely found in other numerical analysis books such as ill conditioned linear systems and methods of regularization to stabilize their solutions nonstandard finite differences methods for solutions of ordinary differential equations and the computations of the optimal controls It provides a practical explanation of how to apply these topics using MATLAB and Python It discusses software libraries to solve mathematical problems such as software Gekko pulp and pyomo These libraries use Python for solutions to differential equations and static and dynamic optimization problems Most programs in the book can be applied in versions prior to MATLAB 2017b and Python 3.7.4 without the need to modify these programs This book is aimed at newcomers and middle level students as well as members of the scientific community who are interested in solving math problems using MATLAB or Python

Numerical and Analytical Methods with MATLAB William Bober, Chi-Tay Tsai, Oren Masory, 2009-08-11 Numerical and Analytical Methods with MATLAB presents extensive coverage of the MATLAB programming language for engineers It demonstrates how the built in functions of MATLAB can be used to solve systems of linear equations ODEs roots of transcendental equations statistical problems optimization problems control systems problem

Numerical Methods for Chemical Engineers with MATLAB Applications A. Constantinides, Navid Mostoufi, 1999 Master numerical methods using MATLAB today's leading software for problem solving This complete guide to numerical methods in chemical engineering is the first to take full advantage of MATLAB's powerful calculation environment Every chapter contains several examples using general MATLAB functions that implement the method and can also be applied to many other problems in the same category The authors begin by introducing the solution of nonlinear equations using several standard approaches including methods of successive substitution and linear interpolation the Wegstein method the Newton Raphson method the Eigenvalue method and synthetic division algorithms With these fundamentals in hand they move on to simultaneous linear algebraic equations covering matrix and vector operations Cramer's rule Gauss methods the Jacobi method and the characteristic value problem Additional coverage includes Finite difference methods and interpolation of equally and unequally spaced points Numerical differentiation and integration including differentiation by backward forward and central finite differences Newton Cotes formulas and the Gauss Quadrature Two detailed chapters on ordinary and partial differential equations Linear and nonlinear regression analyses including least squares estimated vector of

parameters method of steepest descent Gauss Newton method Marquardt Method Newton Method and multiple nonlinear regression The numerical methods covered here represent virtually all of those commonly used by practicing chemical engineers The focus on MATLAB enables readers to accomplish more with less complexity than was possible with traditional FORTRAN For those unfamiliar with MATLAB a brief introduction is provided as an Appendix Over 60 MATLAB examples methods and function scripts are covered and all of them are included on the book's CD

ISE Applied Numerical Methods with MATLAB for Engineers and Scientists Steven Chapra, **Applied Numerical Linear Algebra** James W. Demmel, 1997-08-01 This comprehensive textbook is designed for first year graduate students from a variety of engineering and scientific disciplines

Numerical Methods with Worked Examples: Matlab Edition C. Woodford, C. Phillips, 2011-09-08 This book is for students following an introductory course in numerical methods numerical techniques or numerical analysis It introduces MATLAB as a computing environment for experimenting with numerical methods It approaches the subject from a pragmatic viewpoint theory is kept at a minimum commensurate with comprehensive coverage of the subject and it contains abundant worked examples which provide easy understanding through a clear and concise theoretical treatment This edition places even greater emphasis on learning by doing than the previous edition Fully documented MATLAB code for the numerical methods described in the book will be available as supplementary material to the book on <http://extras.springer.com>

Numerical Methods using MATLAB Abhishek Gupta, 2015-01-05 Numerical Methods with MATLAB provides a highly practical reference work to assist anyone working with numerical methods A wide range of techniques are introduced their merits discussed and fully working MATLAB code samples supplied to demonstrate how they can be coded and applied Numerical methods have wide applicability across many scientific mathematical and engineering disciplines and are most often employed in situations where working out an exact answer to the problem by another method is impractical Numerical Methods with MATLAB presents each topic in a concise and readable format to help you learn fast and effectively It is not intended to be a reference work to the conceptual theory that underpins the numerical methods themselves A wide range of reference works are readily available to supply this information If however you want assistance in applying numerical methods then this is the book for you

An Introduction to Numerical Methods and Analysis James F. Epperson, 2013-06-06 Praise for the First Edition outstandingly appealing with regard to its style contents considerations of requirements of practice choice of examples and exercises Zentrablatt Math carefully structured with many detailed worked examples The Mathematical Gazette an up to date and user friendly account Mathematika An Introduction to Numerical Methods and Analysis addresses the mathematics underlying approximation and scientific computing and successfully explains where approximation methods come from why they sometimes work or don't work and when to use one of the many techniques that are available Written in a style that emphasizes readability and usefulness for the numerical methods novice the book begins with basic elementary material and gradually builds up to more advanced topics A selection

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 6. In chapter 5, this book will draw a conclusion about Applied Numerical Methods With Matlab Solutions. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Applied Numerical Methods With Matlab Solutions.

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