

36. The roots of a cubic equation $a_3x^3 + a_2x^2 + a_1x + a_0 = 0$ can be calculated using the following procedure:

Set: $A = a_2 / a_3$, $B = a_1 / a_3$, and $C = a_0 / a_3$.

Calculate: $D = Q^3 + R^2$,

where $Q = (3B - A^2) / 9$ and $R = (9AB - 27C - 2A^3) / 54$.

If $D > 0$ the equation has complex roots.

If $D = 0$ all roots are real and at least two are equal. The roots are given by:

$x_1 = 2\sqrt[3]{R} - A/3$, $x_2 = -\sqrt[3]{R} - A/3$, and $x_3 = -\sqrt[3]{R} - A/3$.

If $D < 0$ all roots are real and are given by:

$x_1 = 2\sqrt[3]{-Q \cos(\theta/3)} - A/3$, $x_2 = 2\sqrt[3]{-Q \cos(\theta/3 + 120^\circ)} - A/3$, and

$x_3 = 2\sqrt[3]{-Q \cos(\theta/3 + 240^\circ)} - A/3$, where $\cos \theta = R / \sqrt[3]{-Q^3}$.

Write a MATLAB program that determines the real roots of a cubic equation. As input the program asks the user to enter the values of a_3 , a_2 , a_1 , and a_0 as a vector. The program then calculates the value of D . If the equation has complex roots the message "The equation has complex roots" is displayed. Otherwise the real roots are calculated and displayed. Use the program to solve the following equations:

(a) $5x^3 + -34.5x^2 + 36.9x + 8.8 = 0$ (b) $2x^3 + -10x^2 + 24x - 15 = 0$

(c) $2x^3 + -1.4x^2 - 20.58x + 30.87 = 0$

Solution

Script File:

```
v=input('Enter the values of a3, a2, a1, and a0 as a
vector: ');
a=v(2)/v(1); b=v(3)/v(1); c=v(4)/v(1);
Q=(3*b-a^2)/9;
R=(9*a*b-27*c-2*a^3)/54;
D=Q^3+R^2;
if abs(D)<0.01
    D=0;
end
if D > 0
    disp('The equation has complex roots.')
elseif D ==0
    S=nthroot(R,3);
    x1=2*S-a/3;
    x2=-S-a/3;
```

Matlab Solutions For Chapter 5

**Kendall Atkinson, Weimin Han, David E.
Stewart**



Matlab Solutions For Chapter 5:

A Guide to MATLAB Brian R. Hunt, Ronald L. Lipsman, Jonathan M. Rosenberg, Kevin R. Coombes, John E. Osborn, Garrett J. Stuck, 2006-06-08 This is a short focused introduction to MATLAB a comprehensive software system for mathematical and technical computing It contains concise explanations of essential MATLAB commands as well as easily understood instructions for using MATLAB s programming features graphical capabilities simulation models and rich desktop interface Written for MATLAB 7 it can also be used with earlier and later versions of MATLAB This book teaches how to graph functions solve equations manipulate images and much more It contains explicit instructions for using MATLAB s companion software Simulink which allows graphical models to be built for dynamical systems MATLAB s new publish feature is discussed which allows mathematical computations to be combined with text and graphics to produce polished integrated interactive documents For the beginner it explains everything needed to start using MATLAB while experienced users making the switch to MATLAB 7 from an earlier version will also find much useful information here

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

Numerical Solution of Ordinary Differential Equations Kendall Atkinson, Weimin Han, David E. Stewart, 2011-10-24 A concise introduction to numerical methods and the mathematical framework needed to understand their performance *Numerical Solution of Ordinary Differential Equations* presents a complete and easy to follow introduction to classical topics in the numerical solution of ordinary differential equations The book s approach not only explains the presented mathematics but also helps readers understand how these numerical methods are used to solve real world problems Unifying perspectives are provided throughout the text bringing together and categorizing different types of problems in order to help readers comprehend the applications of ordinary differential equations In addition the authors collective academic experience ensures a coherent and accessible discussion of key topics including Euler s method Taylor and Runge Kutta methods General error analysis for multi step methods Stiff differential equations Differential algebraic equations Two point boundary value problems Volterra integral equations Each chapter features problem sets that enable readers to test and build their knowledge of the presented methods and a related Web site features MATLAB programs that

facilitate the exploration of numerical methods in greater depth Detailed references outline additional literature on both analytical and numerical aspects of ordinary differential equations for further exploration of individual topics Numerical Solution of Ordinary Differential Equations is an excellent textbook for courses on the numerical solution of differential equations at the upper undergraduate and beginning graduate levels It also serves as a valuable reference for researchers in the fields of mathematics and engineering

Multivariable Calculus with MATLAB® Ronald L. Lipsman, Jonathan M. Rosenberg, 2017-12-06 This comprehensive treatment of multivariable calculus focuses on the numerous tools that MATLAB brings to the subject as it presents introductions to geometry mathematical physics and kinematics Covering simple calculations with MATLAB relevant plots integration and optimization the numerous problem sets encourage practice with newly learned skills that cultivate the reader's understanding of the material Significant examples illustrate each topic and fundamental physical applications such as Kepler's Law electromagnetism fluid flow and energy estimation are brought to prominent position Perfect for use as a supplement to any standard multivariable calculus text a mathematical methods in physics or engineering class for independent study or even as the class text in an honors multivariable calculus course this textbook will appeal to mathematics engineering and physical science students MATLAB is tightly integrated into every portion of this book and its graphical capabilities are used to present vibrant pictures of curves and surfaces Readers benefit from the deep connections made between mathematics and science while learning more about the intrinsic geometry of curves and surfaces With serious yet elementary explanation of various numerical algorithms this textbook enlivens the teaching of multivariable calculus and mathematical methods courses for scientists and engineers

Discrete Fourier Analysis and Wavelets S. Allen Broughton, Kurt Bryan, 2018-04-03 Delivers an appropriate mix of theory and applications to help readers understand the process and problems of image and signal analysis Maintaining a comprehensive and accessible treatment of the concepts methods and applications of signal and image data transformation this Second Edition of Discrete Fourier Analysis and Wavelets Applications to Signal and Image Processing features updated and revised coverage throughout with an emphasis on key and recent developments in the field of signal and image processing Topical coverage includes vector spaces signals and images the discrete Fourier transform the discrete cosine transform convolution and filtering windowing and localization spectrograms frames filter banks lifting schemes and wavelets Discrete Fourier Analysis and Wavelets introduces a new chapter on frames a new technology in which signals images and other data are redundantly measured This redundancy allows for more sophisticated signal analysis The new coverage also expands upon the discussion on spectrograms using a frames approach In addition the book includes a new chapter on lifting schemes for wavelets and provides a variation on the original low pass high pass filter bank approach to the design and implementation of wavelets These new chapters also include appropriate exercises and MATLAB projects for further experimentation and practice Features updated and revised content throughout continues to emphasize discrete and digital methods and utilizes MATLAB

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Orbital Mechanics for Engineering Students Howard D. Curtis, 2013-10-05 Written by Howard Curtis Professor of Aerospace Engineering at Embry Riddle University Orbital Mechanics for Engineering Students is a crucial text for students of aerospace engineering Now in its 3e the book has been brought up to date with new topics key terms homework exercises and fully worked examples Highly illustrated and fully supported with downloadable MATLAB algorithms for project and practical work this book provides all the tools needed to fully understand the subject New chapter on orbital perturbations New and revised examples and homework problems Increased coverage of attitude dynamics including new MATLAB algorithms and examples

Optimization Concepts and Applications in Engineering Ashok D. Belegundu, Tirupathi R. Chandrupatla, 2019-06-06 Organizations and businesses strive toward excellence and solutions to problems are based mostly on judgment and experience However increased competition and consumer demands require that the solutions be optimum and not just feasible Theory leads to algorithms Algorithms need to be translated into computer codes Engineering problems need to be modeled Optimum solutions are obtained using theory and computers and then interpreted Revised and expanded in its third edition this textbook integrates theory modeling development of numerical methods and problem solving thus preparing students to apply optimization to real world problems This text covers a broad variety of optimization problems using unconstrained constrained gradient and non gradient techniques duality concepts multi objective optimization linear integer geometric and dynamic programming with applications and finite element based optimization It is ideal for advanced undergraduate or graduate courses in optimization design and for practicing engineers

A Course in Differential Equations with Boundary Value Problems Stephen A. Wirkus, Randall J. Swift, Ryan Szypowski, 2017-01-24 A Course in Differential Equations with Boundary Value Problems 2nd Edition adds additional content to the author's successful A Course on Ordinary Differential Equations 2nd Edition This text addresses the need when the course is expanded The focus of the text is on applications and methods of solution both analytical and numerical with emphasis on methods used in the typical

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Solving Optimization Problems with MATLAB®

Dingyü Xue, 2020-04-06 This book focuses on solving optimization problems with MATLAB Descriptions and solutions of nonlinear equations of any form are studied first Focuses are made on the solutions of various types of optimization problems including unconstrained and constrained optimizations mixed integer multiobjective and dynamic programming problems Comparative studies and conclusions on intelligent global solvers are also provided

Engineering Optimization

Singiresu S. Rao, 2009-07-20 Technology Engineering Mechanical Helps you move from theory to optimizing engineering systems in almost any industry Now in its Fourth Edition Professor Singiresu Rao's acclaimed text Engineering Optimization enables readers to quickly master and apply all the important optimization methods in use today across a broad range of industries Covering both the latest and classical optimization methods the text starts off with the basics and then progressively builds to advanced principles and applications This comprehensive text covers nonlinear linear geometric dynamic and stochastic programming techniques as well as more specialized methods such as multiobjective genetic algorithms simulated annealing neural networks particle swarm optimization ant colony optimization and fuzzy optimization Each method is presented in clear straightforward language making even the more sophisticated techniques easy to grasp Moreover the author provides Case examples that show how each method is applied to solve real world problems across a variety of industries Review questions and problems at the end of each chapter to engage readers in applying their newfound skills and knowledge Examples that demonstrate the use of MATLAB for the solution of different types of practical optimization problems References and bibliography at the end of each chapter for exploring topics in greater depth Answers to Review Questions available on the author's Web site to help readers to test their understanding of the basic concepts With its emphasis on problem solving and applications Engineering Optimization is ideal for upper level undergraduates and

graduate students in mechanical civil electrical chemical and aerospace engineering In addition the text helps practicing engineers in almost any industry design improved more efficient systems at less cost *Iterative Solution of Symmetric Quasi-Definite Linear Systems* Dominique Orban,Mario Arioli,2017-04-07 Numerous applications including computational optimization and fluid dynamics give rise to block linear systems of equations said to have the quasi definite structure In practical situations the size or density of those systems can preclude a factorization approach leaving only iterative methods as the solution technique Known iterative methods however are not specifically designed to take advantage of the quasi definite structure This book discusses the connection between quasi definite systems and linear least squares problems the most common and best understood problems in applied mathematics and explains how quasi definite systems can be solved using tailored iterative methods for linear least squares with half as much work To encourage researchers and students to use the software it is provided in MATLAB Python and Julia The authors provide a concise account of the most well known methods for symmetric systems and least squares problems research level advances in the solution of problems with specific illustrations in optimization and fluid dynamics and a website that hosts software in three languages **Mechanism Design** Kevin Russell,Qiong Shen,Raj S. Sodhi,2013-12-02 In the field of mechanism design kinematic synthesis is a creative means to produce mechanism solutions Combined with the emergence of powerful personal computers mathematical analysis software and the development of quantitative methods for kinematic synthesis there is an endless variety of possible mechanism solutions that users are free to e **Nonlinear Control Systems** Zoran Vukic,2003-02-04 This text emphasizes classical methods and presents essential analytical tools and strategies for the construction and development of improved design methods in nonlinear control It offers engineering procedures for the frequency domain as well as solved examples for clear understanding of control applications in the industrial electrical process manufacturing and automotive industries The authors discuss Properties of nonlinear systems stability linearization methods operating modes and dynamic analysis methods phase trajectories in dynamic analysis of nonlinear systems and harmonic linearization in dynamic analysis of nonlinear control systems operating in stabilization mode **Modeling and Simulation with Simulink®** Dingyü Xue,2022-03-07 The essential intermediate and advanced topics of Simulink are covered in the book The concept of multi domain physical modeling concept and tools in Simulink are illustrated with examples for engineering systems and multimedia information The combination of Simulink and numerical optimization methods provides new approaches for solving problems where solutions are not known otherwise Fundamentals of Vibrations Leonard Meirovitch,2010-06-17 *Fundamentals of Vibrations* provides a comprehensive coverage of mechanical vibrations theory and applications Suitable as a textbook for courses ranging from introductory to graduate level it can also serve as a reference for practicing engineers Written by a leading authority in the field this volume features a clear and precise presentation of the material and is supported by an abundance of physical explanations many worked out examples and numerous homework problems The

modern approach to vibrations emphasizes analytical and computational solutions that are enhanced by the use of MATLAB. The text covers single degree of freedom systems, two degree of freedom systems, elements of analytical dynamics, multi degree of freedom systems, exact methods for distributed parameter systems, approximate methods for distributed parameter systems including the finite element method, nonlinear oscillations and random vibrations. Three appendices provide pertinent material from Fourier series, Laplace transformation and linear algebra. Fuzzy TOPSIS Mohamed El Alaoui, 2021-05-26

This book aims to justify the use of fuzzy logic as a logic and as an uncertainty theory in the decision making context. It also discusses the development of the TOPSIS method, Technique for Order of Preference by Similarity to Ideal Solution, with related examples and MATLAB codes. This is the first book devoted to TOPSIS and its fuzzy versions. It presents the use of fuzzy logic as a logic and as an uncertainty theory in the decision making content and discusses the development of the TOPSIS method in classical and fuzzy context. The book justifies the use of fuzzy logic as an uncertainty theory and provides illustrative examples for each fuzzy TOPSIS extension along with related MATLAB codes and case studies. This book is for industrial engineers, operations research engineers, systems engineers and production engineers working in the areas of decision analysis, multi criteria decision making and multiple objective optimization. **Elasticity** Martin H.

Sadd, 2010-08-04. Although there are several books in print dealing with elasticity, many focus on specialized topics such as mathematical foundations, anisotropic materials, two dimensional problems, thermoelasticity, non linear theory etc. As such they are not appropriate candidates for a general textbook. This book provides a concise and organized presentation and development of general theory of elasticity. This text is an excellent book, teaching guide. Contains exercises for student engagement as well as the integration and use of MATLAB Software. Provides development of common solution

methodologies and a systematic review of analytical solutions useful in applications of **Simulations of Machines Using MATLAB and Simulink** John Francis Gardner, 2001. This book is intended as a supplement for undergraduate courses in Kinematics or Dynamics of Mechanisms taught in Mechanical Engineering departments. As a MATLAB supplement, it can be used with any standard textbook including Norton's DESIGN OF MACHINERY, Second Edition, Erdman and Sandor's MECHANISMS DESIGN, Third Edition, or Mabie and Reinholtz's MECHANISMS AND DYNAMICS OF MACHINERY, Fourth Edition. The emphasis of the text is integrating the computational power of MATLAB into the analysis and design of mechanisms. This new book in Brooks Cole's Bookware Companion Series is the first to apply the use of MATLAB to the study of kinematics and dynamics of mechanisms. This book is intended as a useful guide for readers interested in understanding kinematics or as a reference for practicing mechanical engineers. It provides detailed instruction and examples showing how to use MATLAB increasingly the software program of choice among engineers for complex computations and its accompanying simulation environment, SIMULINK, to develop powerful and accurate computer simulations of constrained mechanical systems.

Basic Control Volume Finite Element Methods for Fluids and Solids Vaughan R. Voller, 2009. The Control Volume

Finite Element Method CVFEM is a hybrid numerical methods combining the physics intuition of Control Volume Methods with the geometric flexibility of Finite Element Methods The concept of this monograph is to introduce a common framework for the CVFEM solution so that it can be applied to both fluid flow and solid mechanics problems To emphasize the essential ingredients discussion focuses on the application to problems in two dimensional domains which are discretized with linear triangular meshes This allows for a straightforward provision of the key information required to fully construct working CVFEM solutions of basic fluid flow and solid mechanics problems

Programming Phase-Field Modeling S. Bulent Biner, 2017-01-25 This textbook provides a fast track pathway to numerical implementation of phase field modeling a relatively new paradigm that has become the method of choice for modeling and simulation of microstructure evolution in materials It serves as a cookbook for the phase field method by presenting a collection of codes that act as foundations and templates for developing other models with more complexity Programming Phase Field Modeling uses the Matlab Octave programming package simpler and more compact than other high level programming languages providing ease of use to the widest audience Particular attention is devoted to the computational efficiency and clarity during development of the codes which allows the reader to easily make the connection between the mathematical formulism and the numerical implementation of phase field models The background materials provided in each case study also provide a forum for undergraduate level modeling simulations courses as part of their curriculum

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