

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

**Joacim Rocklöv**



## 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.

**Modern Engineering Mathematics** Abul Hasan Siddiqi, Mohamed Al-Lawati, Messaoud Boulbrachene, 2017-12-22 This book is a compendium of fundamental mathematical concepts, methods, models, and their wide range of applications in diverse fields of engineering. It comprises essentially a comprehensive and contemporary coverage of those areas of mathematics which provide foundation to electronic, electrical, communication, petroleum, chemical, civil, mechanical, biomedical, software, and financial engineering. It gives a fairly extensive treatment of some of the recent developments in mathematics which have found very significant applications to engineering problems.

**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.

**Elasticity** Martin H. Sadd, 2014-01-22 Elasticity: Theory, Applications and Numerics Third Edition continues its market leading tradition of concisely presenting and developing the linear theory of elasticity, moving from solution methodologies, formulations and strategies into applications of contemporary interest such as fracture mechanics, anisotropic and composite materials, micromechanics, nonhomogeneous graded materials and computational methods. Developed for a one or two semester graduate elasticity course, this new edition has been revised with new worked examples and exercises and new or expanded coverage of areas such as spherical anisotropy, stress contours, isochromatics, isoclinics and stress trajectories. Using MATLAB software, numerical activities in the text are integrated with analytical problem solutions. These numerics aid in particular calculations, graphically present stress and displacement solutions to problems of interest and conduct simple finite element calculations, enabling comparisons with previously studied analytical solutions. Online ancillary support materials for instructors include a solutions manual, image bank and a set of PowerPoint lecture slides. Thorough yet concise

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*Fault Diagnosis and Sustainable Control of Wind Turbines* Silvio Simani, Saverio Farsoni, 2018-01-02 Fault Diagnosis and Sustainable Control of Wind Turbines Robust Data Driven and Model Based Strategies discusses the development of reliable and robust fault diagnosis and fault tolerant sustainable control schemes by means of data driven and model based approaches These strategies are able to cope with unknown nonlinear systems and noisy measurements The book also discusses simpler solutions relying on data driven and model based methodologies which are key when on line implementations are considered for the proposed schemes The book targets both professional engineers working in industry and researchers in academic and scientific institutions In order to improve the safety reliability and efficiency of wind turbine systems thus avoiding expensive unplanned maintenance the accommodation of faults in their early occurrence is fundamental To highlight the potential of the proposed methods in real applications hardware in the loop test facilities representing realistic wind turbine systems are considered to analyze the digital implementation of the designed solutions The achieved results show that the developed schemes are able to maintain the desired performances thus validating their reliability and viability in real time implementations Different groups of readers ranging from industrial engineers wishing to gain insight into the applications potential of new fault diagnosis and sustainable control methods to the academic control community looking for new problems to tackle will find much to learn from this work Provides wind turbine models with varying complexity as well as the solutions proposed and developed by the authors Addresses in detail the design development and realistic implementation of fault diagnosis and fault tolerant control strategies for wind turbine systems Addresses the development of sustainable control solutions that in general do not require the introduction of further or redundant measurements Proposes active fault tolerant sustainable solutions that are able to maintain the wind turbine working conditions with gracefully degraded performance before required maintenance can occur Presents full coverage of the diagnosis and fault tolerant control problem starting from the modeling and identification and finishing with diagnosis and fault tolerant control approaches Provides MATLAB and Simulink codes for the solutions proposed **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

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**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

**Boundary Element Method for Magnetohydrodynamic Flow** Münevver Tezer-Sezgin, Canan Bozkaya, 2024-05-20 Boundary Element Method for Magnetohydrodynamic Flow offers one of the first systematic and detailed treatments of the application of boundary element method BEM to magnetohydrodynamic MHD flow problems It aims to fill in the gaps left by the earlier books on the application of BEM to some physical problems such as fluid dynamics elasticity and geophysics An overview of the theory of MHD flow and a comprehensive mathematical formulation of BEM for convection diffusion type differential equations are provided by the authors who heavily rely on their research and experience in the disciplines of BEM and MHD flow The book first discusses the basic principles of the BEM approach for the MHD duct flow problems in coupled form with the fundamental solution derived by the authors Specifically the BEM solutions of MHD flow in pipes of rectangular or circular cross sections and MHD flow in infinite regions are all covered emphasizing the convergence of infinite boundary integrals This book especially concentrates on the MHD flow in regions with partly insulated partly perfectly conducting boundaries by BEM giving also the parabolic boundary layer thickness emanating from the points of discontinuities on the walls The book secondly includes the dual reciprocity boundary element technique DRBEM an alternative form of BEM that expands the applicability of BEM to MHD flow and heat transfer problems as well as buoyancy MHD flow with magnetic potential and inductionless MHD flow The purpose of the book is to serve as a research book for applied mathematicians engineers scientists and graduate students who wish to learn in depth about the formulation and application of BEM in MHD flow problems As such it is an invaluable resource and a major contribution to the numerical solution of MHD flow problems

**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

**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

**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

*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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