

Solving Nonlinear Equation(s) in MATLAB

1 Introduction

This tutorial helps you use MATLAB to solve nonlinear algebraic equations of single or multiple variables.

2 Writing MATLAB functions

In order to use the MATLAB solvers, you must first be able to write MATLAB functions. There are two different methods to create a function - (a) inline command, and (b) Matlab editor

2.1 The 'inline' command

The inline command can be used for simple, one-line functions. For example, to create $f(x) = x^3 - 5x^2 - x + 2$:

```
>> f = inline('x^3-5*x^2-x+2')
```

```
f =
```

```
    Inline function:
```

```
f(x) = x^3-5*x^2-x+2
```

You can now evaluate the function value at any given x. For example, to evaluate the function value at $x = 4$, simply type `f(4)` at Matlab command line.

```
EDU>> f(4)
```

```
ans =
```

```
    -16
```

2.2 The MATLAB editor

The editor allows the user to write functions of any length and/or complexity.

1. Set the current working directory to your diskspace

e.g. "c:\CHEE222\Matlab\lanhappy\Temp\"

Solving Nonlinear Equation S In Matlab

Sabine Zange



Solving Nonlinear Equation S In Matlab:

Numerical Methods for Engineers and Scientists, Second Edition, Joe D. Hoffman, Steven Frankel, 2001-05-31
Emphasizing the finite difference approach for solving differential equations the second edition of Numerical Methods for Engineers and Scientists presents a methodology for systematically constructing individual computer programs Providing easy access to accurate solutions to complex scientific and engineering problems each chapter begins with objectives a discussion of a representative application and an outline of special features summing up with a list of tasks students should be able to complete after reading the chapter perfect for use as a study guide or for review The AIAA Journal calls the book a good solid instructional text on the basic tools of numerical analysis

Solving Algebraic Computational Problems in Geodesy and Geoinformatics Joseph L. Awange, Erik W. Grafarend, 2005-08-29 While preparing and teaching Introduction to Geodesy I and II to dergraduate students at Stuttgart University we noticed a gap which motivated the writing of the present book Almost every topic that we taught requires some skills in algebra and in particular computer algebra From positioning to transformation problems inherent in geodesy and geoinformatics knowledge of algebra and application of computer algebra software were required In preparing this book therefore we have attempted to put together basic concepts of abstract algebra which underpin the techniques for solving algebraic problems Algebraic computational algorithms useful for solving problems which require exact solutions to nonlinear systems of equations are presented and tested on various problems Though the present book focuses mainly on the two fields the concepts and techniques presented herein are nonetheless applicable to other fields where algebraic computational problems might be encountered In Engineering for example network densification and robotics apply resection and intersection techniques which require algebraic solutions Solution of nonlinear systems of equations is an indispensable task in almost all geosciences such as geodesy geoinformatics geophysics just to mention but a few as well as robotics These equations which require exact solutions underpin the operations of ranging resection intersection and other techniques that are normally used Examples of problems that require exact solutions include three dimensional resection problem for determining positions and orientation of sensors e.g camera theodolites robots scanners etc

VIII Preface coordinate transformation to match shapes and sizes of points in different systems mapping from topography to reference ellipsoid and analytical determination of refraction angles in GPS meteorology

Numerical Mathematics Matheus Grasselli, Dmitry Pelinovsky, 2008 Numerical Mathematics presents the innovative approach of using numerical methods as a practical laboratory for all undergraduate mathematics courses in science and engineering streams The authors bridge the gap between numerical methods and undergraduate mathematics and emphasize the graphical visualization of mathematical properties numerical verification of formal statements and illustrations of the mathematical ideas Students using Numerical Mathematics as a supplementary reference for basic mathematical courses will be encouraged to develop their mathematical intuition with an effective component of technology while students using it as the primary text for

numerical courses will have a broader reinforced understanding of the subject

Guide to Scientific Computing Peter R. Turner, 2001 This book introduces the reader to many of the problems of scientific computing and the wide variety of methods used for their solutions It discusses basic approaches and stimulates an appreciation of the need for numerical methods in solving different types of problems For each of the problems presented the author provides some mathematical justification and examples These serve as practical evidence and motivation for the reader to follow Practical justification of the methods is provided through computer examples and exercises The book includes an introduction to MATLAB but the code used is not intended to exemplify sophisticated or robust pieces of software it is purely illustrative of the method under discussion

A Gentle Introduction to Scientific Computing Dan Stanescu, Long Lee, 2022-05-01 Scientific Computation has established itself as a stand alone area of knowledge at the borderline between computer science and applied mathematics Nonetheless its interdisciplinary character cannot be denied its methodologies are increasingly used in a wide variety of branches of science and engineering A Gentle Introduction to Scientific Computing intends to serve a very broad audience of college students across a variety of disciplines It aims to expose its readers to some of the basic tools and techniques used in computational science with a view to helping them understand what happens behind the scenes when simple tools such as solving equations plotting and interpolation are used To make the book as practical as possible the authors explore their subject both from a theoretical mathematical perspective and from an implementation driven programming perspective Features Middle ground approach between theory and implementation Suitable reading for a broad range of students in STEM disciplines Could be used as the primary text for a first course in scientific computing Introduces mathematics majors without any prior computer science exposure to numerical methods All mathematical knowledge needed beyond Calculus together with the most widely used Calculus notation and concepts is introduced in the text to make it self contained The erratum document for A Gentle Introduction to Scientific Computing can be accessed here

Heat Transfer Principles and Applications Charles H. Forsberg, 2020-03-20 Heat Transfer Principles and Applications is a welcome change from more encyclopedic volumes exploring heat transfer This shorter text fully explains the fundamentals of heat transfer including heat conduction convection radiation and heat exchangers The fundamentals are then applied to a variety of engineering examples including topics of special and current interest like solar collectors cooling of electronic equipment and energy conservation in buildings The text covers both analytical and numerical solutions to heat transfer problems and makes considerable use of Excel and MATLAB in the solutions Each chapter has several example problems and a large but not overwhelming number of end of chapter problems A medium sized text providing a thorough treatment of heat transfer fundamentals Includes both analytical and numerical solutions of heat transfer problems Extensive use of Excel and Matlab Includes a chapter on mass transfer Includes a unique chapter of multimode problems to enhance the students problem solving skills Minimal information is given in the problem statements Students must determine the relevant modes of heat

transfer conduction convection radiation and using the earlier chapters must determine the appropriate solution technique For example they must decide whether the problem is steady state or transient They must determine the applicable convection coefficients and material properties They must decide which solution approach e g analytical or numerical is appropriate

Solving Nonlinear Equations with Newton's Method C. T. Kelley, 2003-01-01 Contains trouble shooting guides to the major algorithms for Newton s method their common failure modes and the likely causes of failure **Mechanical Automation and Materials Engineering**

Daniel Chen, 2013-08-16 Selected peer reviewed papers from the 2nd International Conference on Mechanical Automation and Materials Engineering ICMAME 2013 August 9 11 2013 Wuhan China

Applied Engineering Analysis Tai-Ran Hsu, 2018-03-07 A resource book applying mathematics to solve engineering problems Applied Engineering Analysis is a concise textbook which demonstrates how to apply mathematics to solve engineering problems It begins with an overview of engineering analysis and an introduction to mathematical modeling followed by vector calculus matrices and linear algebra and applications of first and second order differential equations Fourier series and Laplace transform are also covered along with partial differential equations numerical solutions to nonlinear and differential equations and an introduction to finite element analysis The book also covers statistics with applications to design and statistical process controls Drawing on the author s extensive industry and teaching experience spanning 40 years the book takes a pedagogical approach and includes examples case studies and end of chapter problems It is also accompanied by a website hosting a solutions manual and PowerPoint slides for instructors Key features Strong emphasis on deriving equations not just solving given equations for the solution of engineering problems Examples and problems of a practical nature with illustrations to enhance student s self learning Numerical methods and techniques including finite element analysis Includes coverage of statistical methods for probabilistic design analysis of structures and statistical process control SPC Applied Engineering Analysis is a resource book for engineering students and professionals to learn how to apply the mathematics experience and skills that they have already acquired to their engineering profession for innovation problem solving and decision making

Numerical Methods for Nonlinear Engineering Models John R. Hauser, 2009-03-24 There are many books on the use of numerical methods for solving engineering problems and for modeling of engineering artifacts In addition there are many styles of such presentations ranging from books with a major emphasis on theory to books with an emphasis on applications The purpose of this book is hopefully to present a somewhat different approach to the use of numerical methods for engineering applications Engineering models are in general nonlinear models where the response of some appropriate engineering variable depends in a nonlinear manner on the plication of some independent parameter It is certainly true that for many types of engineering models it is sufficient to approximate the real physical world by some linear model However when engineering environments are pushed to treme conditions nonlinear effects are always encountered It is also such treme conditions that are of major importance in determining the reliability or

failure limits of engineering systems Hence it is essential than engineers have a toolbox of modeling techniques that can be used to model nonlinear engineering systems Such a set of basic numerical methods is the topic of this book For each subject area treated nonlinear models are incorporated into the discussion from the very beginning and linear models are simply treated as special cases of more general nonlinear models This is a basic and fundamental difference in this book from most books on numerical methods *Perry's Chemical Engineers' Handbook, 9th Edition* Don W. Green, Marylee Z.

Southard, 2018-07-13 Up to Date Coverage of All Chemical Engineering Topics from the Fundamentals to the State of the Art Now in its 85th Anniversary Edition this industry standard resource has equipped generations of engineers and chemists with vital information data and insights Thoroughly revised to reflect the latest technological advances and processes Perry's Chemical Engineers Handbook Ninth Edition provides unsurpassed coverage of every aspect of chemical engineering You will get comprehensive details on chemical processes reactor modeling biological processes biochemical and membrane separation process and chemical plant safety and much more This fully updated edition covers Unit Conversion Factors and Symbols Physical and Chemical Data including Prediction and Correlation of Physical Properties Mathematics including Differential and Integral Calculus Statistics Optimization Thermodynamics Heat and Mass Transfer Fluid and Particle Dynamics Reaction Kinetics Process Control and Instrumentation Process Economics Transport and Storage of Fluids Heat Transfer Operations and Equipment Psychrometry Evaporative Cooling and Solids Drying Distillation Gas Absorption and Gas Liquid System Design Liquid Liquid Extraction Operations and Equipment Adsorption and Ion Exchange Gas Solid Operations and Equipment Liquid Solid Operations and Equipment Solid Solid Operations and Equipment Chemical Reactors Bio based Reactions and Processing Waste Management including Air Wastewater and Solid Waste Management Process Safety including Inherently Safer Design Energy Resources Conversion and Utilization Materials of Construction **Chemical Engineering Education**, 2004 Vehicle, Mechatronics and Information Technologies X.D. Yu, 2013-08-30 Selected peer reviewed papers from the 2013 International Conference on Vehicle Mechanical Engineering and Information Technology VMEIT 2013 August 17 18 2013 Zhengzhou Henan China *An Introduction to Dynamics* Rudra Pratap, 1996

ICEMS'2001 Fengxiang Wang, Renyuan Tang, 2001 **Solid-State Sensor and Actuator Workshop, Hilton Head Island, South Carolina, June 3-6, 1996**, 1996 Proceedings of the Fourth World Conference on Engineering Education E. R. Krueger, F. A. Kulacki, 1995 □□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□, 2008 **Proceedings, IEEE Control Systems Society ... Symposium on Computer-Aided Control System Design (CACSD)**, 1996 **Cornell University Courses of Study** Cornell University, 2007

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