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 =

   -18
```

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\Iamhappy\Temp\"

Solving Nonlinear Equation S In Matlab

David Baud

Solving Nonlinear Equation S In Matlab:

Enjoying the Beat of Phrase: An Mental Symphony within **Solving Nonlinear Equation S In Matlab**

In a world taken by monitors and the ceaseless chatter of immediate communication, the melodic elegance and psychological symphony created by the prepared term usually diminish into the backdrop, eclipsed by the relentless noise and disturbances that permeate our lives. However, nestled within the pages of **Solving Nonlinear Equation S In Matlab** a charming literary prize brimming with fresh feelings, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, that charming masterpiece conducts visitors on a psychological journey, skillfully unraveling the hidden songs and profound impact resonating within each carefully constructed phrase. Within the depths of this touching analysis, we will examine the book is main harmonies, analyze their enthralling writing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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