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

Joe D. Hoffman,Steven Frankel

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