

# Matlab Chapter 3

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## Matlab Chapter 3

### Chapter 3: Programming with MATLAB

Chapter 3: Programming with MATLAB Chapter Objectives  
 qLearning how to create well-documented M-files in the edit window and invoke them from the command window  
 qUnderstanding how script and function files differ  
 qUnderstanding how to incorporate help comments in functions

### Matlab Chapter 3 - Universiteit Leiden

MATLAB Chapter 3 1 MATLAB Course November-December 2006 Chapter 3: Graphics Making plots >> help plot PLOT Linear plot PLOT(X,Y) plots vector Y versus vector X If X or Y is a matrix, then the vector is plotted versus the rows or columns of the matrix, whichever line up If X is a scalar and Y is a vector, length(Y) disconnected points are

### Chapter 3 Getting Started with Matlab - UChicago GeoSci

18 CHAPTER 3 GETTING STARTED WITH MATLAB sonde = load('93032700dat'); The argument is the filename The semicolon tells matlab not to echo all the data to the screen load will read in either space-delimited or tab-delimited text

### Chapter 3 Development of a MATLAB Data Acquisition and ...

Chapter 3 Development of a MATLAB Data Acquisition and Control Toolbox for PIC Microcontrollers 31 Introduction Dataacquisitionand controlboards (DACBs)are essentialfor interfacingensors/actuators with decision making devices such as a personal computer (PC) Thus, DACBs are used in

### Chapter 3 Calendars and Clocks - Makers of MATLAB and ...

2 Chapter 3 Calendars and Clocks The first five elements are integers, while the sixth element has a fractional part that is accurate to milliseconds The best way to print a clock vector is to use fprintf or sprintf with a specified format string that has both integer and floating point fields f = '%6d %6d %6d %6d %93f\n'

### Part 1 Chapter 3 - Washington University in St. Louis

Part 1 Chapter 3 Programming with MATLAB Chapter Objectives • Learning how to create well-documented M-files in the edit window and invoke them from the command window it is calculated as an expression in MATLAB as:  $3 < 5 < 4$ , which leads to  $\text{true} < 4$  at which point true is ...

### Matlab: An Introduction with Applications - Third Edition

viii contents 34 element-by-element operations 66 35 using arrays in matlab built-in math functions 69 36 built-in functions for analyzing arrays 69 37 generation of random numbers 71 38 examples of matlab applications 73 39 problems 79 chapter 4 using script files and managing data 85 41 the matlab workspace and the workspace window 86 42 input to a script file 87

### Matlab: a Practical Introduction to

MATLAB, with a chapter or two on some programming concepts, and those that cover only the programming constructs without mentioning many of the built-in functions that make MATLAB ...

### Chapter 3 - Interpolation

Chapter 3 - Interpolation 31 The Interpolating Polynomial Interpolation is the process of defining a function that "connects the dots" between specified (data) points But in Matlab, polynomial coefficient vectors are always assumed to be in decreasing order; ie, the

### Chapter 1 Introduction to MATLAB - MathWorks

Chapter 1 Introduction to MATLAB This book is an introduction to two subjects: Matlab and numerical computing This first chapter introduces Matlab by presenting several programs that investigate elementary, but interesting, mathematical problems If you already have some experience programming in another language, we hope that you can see how

### Chapter 3 MATLAB Frequency Response Example

Chapter 3 MATLAB Frequency Response Example A couple years ago one student asked if I could put together some of the MATLAB commands I used in obtaining the discrete-time  $G(z)$  using the integration rules, and for finding the frequency response (magnitude and phase) I'll even

### Functions and Scripts - Home | EECS

Chapter 3 Functions and Scripts 31 Built-in (Intrinsic ) Mathematical Functions A simple function in mathematics,  $f(x)$ , associates a unique number to each value of  $x$  The function can be expressed in the form  $y = f(x)$ , where  $f(x)$  is usually a mathematical expression in terms of  $x$

### Chapter 3. Arrays and Array Operations

Engineering Computations and Modeling in MATLAB/Simulink Creating Special Arrays 1) `ones(m,n,p,...)` creates an  $m \times n \times p \times \dots$  array of ones (`ones(n)` creates an  $n \times n$  matrix of ones)

### Matlab Chapter 4 - Universiteit Leiden

MATLAB Chapter 4 1 MATLAB Course November-December 2006 Chapter 4: Optimization `>> help fminunc` FMINUNC Finds the minimum of a function of several variables `X=FMINUNC(FUN,X0)` starts at  $X_0$  and finds a minimum  $X$  of the function  $FUN$   $FUN$  accepts input  $X$  and returns a scalar function value  $F$  evaluated at  $X$   $X_0$  can be a scalar, vector or matrix

### Chapter 3 Introduction to MATLAB Programming

HOME New New Script PLOTS Find Files Compare Open APPS Import Data New Variable Open Variable Save Workspace Clear Workspace VARIABLE MATI-AB R2016a - orerelease use

### MATLAB R Exercises (for Chapters 1-14)

MATLAB R Exercises (for Chapters 1-14) Branislav M Notarović • Functions in MATLAB for generating 3-D polar pattern plots of arbitrary radiation

functions and for are referred to in exactly the same way as within the book itself For instance, Chapter 1, Section 11, Example 11, Problem 11, Eq(11), and Fig11 indicate reference

### **The Delta Sequence - - - [n] - IEEE**

In this chapter, we shall consider some fundamental concepts of linear systems analysis and use the power of MATLAB to undertake system analysis The Delta Sequence - - -  $\delta[n]$  The delta sequence plays an important role in the characterization of discrete-time linear time-invariant systems The delta sequence, written as  $\delta[n]$ , is defined as 1

### **Chapter 3 Two-Dimensional Plots - NJIT SOS**

drdc dh CS 101 /SJC 5th Edition 2 Logarithmic Scales Some time data in logarithmic scale can have linear property semilogy - uses a log10 scale on the y axis semilogx - uses a log10 scale on the x axis loglog - uses a log10 scale on both axes

### **Chapter 2. MATLAB Fundamentals**

qMATLAB has a powerful suite of built-in graphics functions qTwo of the primary functions are plot(for plotting 2-D data) and plot3(for plotting 3-D data) qIn addition to the plotting commands, MATLAB allows you to label and annotate your graphs using the title, xlabel, ylabel, and legend commands

### **Finite Element Analysis Using MATLAB Toolbox**

in Chapter 2 For example,Ke3contains the 2 2 stiffness matrix for Element 3 This step must be repeated for all elements When the material properties are the same, the program can be simplified by using the for-endloop command in MATLAB Once the element stiffness matrices are obtained, they are assembled to form the