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Introduction

Function Structure

Writing a Function

Running a Function

Outro

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Introduction to the Matlab basic syntax, command window, and working directory
Basic matrix arithmetic in Matlab including an overview of different operators
Learn the built in functions and constants and how to write your own functions
Solving linear equations using Matlab
For loops, while loops, and if statements
Exploring different types of data
Plotting data using the Fibonacci Sequence
Plots useful for data analysis
How to load and save data
Subplots, 3D plots, and labeling plots
Sound is a wave of air particles
Reversing a signal

The Fourier transform lets you view the frequency components of a signal

Fourier transform of a sine wave

Applying a low-pass filter to an audio stream

To store images in a computer you must sample the resolution

Basic image manipulation including how to flip images

Convolution allows you to blur an image

A Gaussian filter allows you reduce image noise and detail

Blur and edge detection using the Gaussian filter

Introduction to Matlab & probability

Measuring probability

Generating random values

Birthday paradox

Continuous variables

Mean and variance

Gaussian (normal) distribution

Test for normality

2 sample tests

Multivariate Gaussian

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Variables & Arithmetic

Matrices, Arrays, & Linear Algebra

The Index

Example 1 - Equations

Anonymous Functions

Example 2 - Plotting

Example 3 - Logic

Example 4 - Random & Loops

Sections

For Loops

Calculation Time

Naming Conventions

File Naming

While Loop

Custom Function

Have a good one ;)

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Define a Time Column

Generate a Figure

Export Data

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Intro

About this Module

Starting and Exiting MATLAB

MATLAB Programming Example

MATLAB Code: Main Code Blocks

MATLAB Code: Key Parts

Basic Data Types

Basic Mathematical Expressions Scalar Operations

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create and run a basic matlab program

create a plot from these two vectors

highlight all the commands

run a specific section of code

access the fifth element in this vector

change the first five values of y

start by writing a statement

display hurray

run the program for the three cases

repeat a set of commands within your code

counting the number of iterations

walk us through a couple of iterations

execute the random walk

check the mean of the data

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Syntax of if Loop

Flowchart of if Statement

Nested if Loop

Flowchart for this if Loop

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The Index

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Have a good one ;)

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Value of a Polynomial

Roots of a Polynomial

Division of Polynomials

Derivatives of Polynomials

Lecture 4: Polynomials in Matlab

Chapter 4 Solution (Amos Gilat Book)| Lecture 8| Urdu - Chapter 4 Solution (Amos Gilat Book)|

Lecture 8| Urdu by Muhammad Asif Farooq (PhD) 552 views 1 year ago 25 minutes - In this lecture, we solve some problems from Chapter 4. We also learn to write data in an excel sheet.

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Introduction

Question 1

Question 2

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