

Matlab

Introduction:

<https://www.youtube.com/watch?v=OHxR8iMHDWw&list=PL7CAABC40B2825C8B>

Working in the Development Environment

<https://www.youtube.com/watch?v=F9js5H2XfOE&list=PL7CAABC40B2825C8B&index=2>

How to Use Basic Plotting Functions

<https://www.youtube.com/watch?v=GtmUXVzw4lQ&list=PL7CAABC40B2825C8B&index=4>

Working with Arrays in MATLAB

<https://www.youtube.com/watch?v=g8lUOI0uqTo&list=PL7CAABC40B2825C8B&index=5>

Introducing Structures and Cell Arrays

<https://www.youtube.com/watch?v=ZK0ig6NozqU&list=PL7CAABC40B2825C8B&index=6>

Introducing MATLAB Fundamental Classes (Data Types)

<https://www.youtube.com/watch?v=frT7Al8XmPQ&list=PL7CAABC40B2825C8B&index=7>

How to Use for-Loops to Visualize Data in MATLAB

<https://www.youtube.com/watch?v=il6T7quAqXw&list=PL7CAABC40B2825C8B&index=24>

How to Solve Math Problems Using Symbolic Math Toolbox

<https://www.youtube.com/watch?v=yYyRUH1idWg&list=PL7CAABC40B2825C8B&index=31>

How to Visualize Multivariable Functions in MATLAB

<https://www.youtube.com/watch?v=G9THGoGjNlo&list=PL7CAABC40B2825C8B&index=35>

SIMULINK

Getting Started with Simulink, Part 1: How to Build and Simulate a Simple Simulink Model

<https://www.youtube.com/watch?v=iOmqgewj5XI>

Getting Started with Simulink, Part 2: How to Add a Controller and Plant to the Simulink Model

https://www.youtube.com/watch?v=a_DW7xznPco

Getting Started with Simulink, Part 3: How to View Simulation Results

<https://www.youtube.com/watch?v=yTVX-EVGyog>

Getting Started with Simulink, Part 4: How to Tune a PID Controller

<https://www.youtube.com/watch?v=CjirdeKxUY>

Getting Started with Simulink, Part 5: How to Compare and Save Simulation Data

<https://www.youtube.com/watch?v=KJDbZDAKMZ4>

How to Bring Data from MATLAB Into Simulink

https://www.youtube.com/watch?v=kM2qL_YxBQ&list=PL7CAABC40B2825C8B&index=18

How to Interact with Simulink Models from MATLAB Scripts

<https://www.youtube.com/watch?v=pLYZRCY-RO8&list=PL7CAABC40B2825C8B&index=29>

How to Use Buses in Simulink

<https://www.youtube.com/watch?v=LWnZXSuRt0I&list=PL7CAABC40B2825C8B&index=33>