

LAB 1. Signals in Matlab

Introduction

This lab will describe how to use Matlab for some basic signal representation and manipulation:

- Creating and importing signals
- Sampling and resampling
- Signal visualization
- Modeling noise
- Modulation

You will be needing to run some special programs for all the MATLAB Labs in EE289. Go to

<http://www.cems.uvm.edu/~mirchand/classes/EE275/2012/Software/>

and download *sg01* and *sg02* and save it somewhere on your disc. When using Matlab, set a path to it, so that all functions in *sg01* and *sg02* are accessible.

Discrete Signals

Time base: $\mathbf{t} = [0.0 \ 0.1 \ 0.2 \ 0.3]$
Signal data: $\mathbf{x} = [1.0 \ 3.2 \ 2.0 \ 8.5]$

The central data construct in Matlab is the numeric array, an ordered collection of real or complex numeric data with one or more dimensions. The basic data objects of signal processing (one-dimensional signals or sequences, multichannel signals, and two-dimensional signals) are all naturally suited to array representation.

Matlab represents ordinary one-dimensional sampled data signals, or sequences, as vectors. Vectors are 1-by- n or n -by-1 arrays, where n is the number of samples in the sequence.

One way to introduce a sequence into Matlab is to enter it as a list of elements at the command prompt. The statement

```
 $\mathbf{x} = [1 \ 2 \ 3 \ 4 \ 5]$ 
```

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N Colangelo



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Table of Contents Lab 1 Signals In Matlab

1. Understanding the eBook Lab 1 Signals In Matlab
 - The Rise of Digital Reading Lab 1 Signals In Matlab
 - Advantages of eBooks Over Traditional Books
2. Identifying Lab 1 Signals In Matlab
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Lab 1 Signals In Matlab
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lab 1 Signals In Matlab
 - Personalized Recommendations

- Lab 1 Signals In Matlab User Reviews and Ratings
- Lab 1 Signals In Matlab and Bestseller Lists
- 5. Accessing Lab 1 Signals In Matlab Free and Paid eBooks
 - Lab 1 Signals In Matlab Public Domain eBooks
 - Lab 1 Signals In Matlab eBook Subscription Services
 - Lab 1 Signals In Matlab Budget-Friendly Options
- 6. Navigating Lab 1 Signals In Matlab eBook Formats
 - ePub, PDF, MOBI, and More
 - Lab 1 Signals In Matlab Compatibility with Devices
 - Lab 1 Signals In Matlab Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lab 1 Signals In Matlab
 - Highlighting and Note-Taking Lab 1 Signals In Matlab
 - Interactive Elements Lab 1 Signals In Matlab
- 8. Staying Engaged with Lab 1 Signals In Matlab
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lab 1 Signals In Matlab
- 9. Balancing eBooks and Physical Books Lab 1 Signals In Matlab
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lab 1 Signals In Matlab
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Lab 1 Signals In Matlab
 - Setting Reading Goals Lab 1 Signals In Matlab
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lab 1 Signals In Matlab
 - Fact-Checking eBook Content of Lab 1 Signals In Matlab

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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