

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

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

Lab 1 Signals In Matlab

Camilla Rothe



Lab 1 Signals In Matlab:

This book delves into Lab 1 Signals In Matlab. Lab 1 Signals In Matlab is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Lab 1 Signals In Matlab, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Lab 1 Signals In Matlab
- Chapter 2: Essential Elements of Lab 1 Signals In Matlab
- Chapter 3: Lab 1 Signals In Matlab in Everyday Life
- Chapter 4: Lab 1 Signals In Matlab in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Lab 1 Signals In Matlab. The first chapter will explore what Lab 1 Signals In Matlab is, why Lab 1 Signals In Matlab is vital, and how to effectively learn about Lab 1 Signals In Matlab.

3. In chapter 2, the author will delve into the foundational concepts of Lab 1 Signals In Matlab. The second chapter will elucidate the essential principles that need to be understood to grasp Lab 1 Signals In Matlab in its entirety.

4. In chapter 3, the author will examine the practical applications of Lab 1 Signals In Matlab in daily life. This chapter will showcase real-world examples of how Lab 1 Signals In Matlab can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Lab 1 Signals In Matlab in specific contexts. This chapter will explore how Lab 1 Signals In Matlab is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Lab 1 Signals In Matlab. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Lab 1 Signals In Matlab.

https://matrix.jamesarcher.co/public/book-search/fetch.php/Martial_Arts_Manual_Primer.pdf

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