

## ELEC 342 Lab 1: Additional MATLAB features, Properties of Signals and Systems, Convolution and System Response

Revised 2023-August

Part I of this lab will introduce more features of the MATLAB programming language: looping and conditional selection, as well as array processing features. Various properties of signals and systems such as **linearity**, **evenness**, and **oddness** will be verified using simple MATLAB scripts. In Part II, the MATLAB convolution function will be used to determine a system's response to an input signal.

### PART I

#### The for loop:

The general form of a for loop in MATLAB is:

```
for variable = index_expression
    statement1;
    statement2;
    statement3;
    ...
    statementn;
end
```

**Example 1:** The following for loop computes the sum of all the integers between 1 and 10:

```
% finds the sum of the integers from 1 to 10
clear
sum = 0; % initialize running sum
for i = 1 : 10
    sum = sum + i;
end
disp('The sum is = ' ) % output a descriptive string
disp(sum) % followed by the value of sum
```

The disp command is used to display the value of a variable (or a string enclosed in single quotes).

**Example 2:** The following loop finds the sum of the squares of the integers from 1 to 5,  $\text{sum} = 1^2 + 2^2 + 3^2 + 4^2 + 5^2 = 1 + 4 + 9 + 16 + 25 = 55$ .

```
clear;
sum = 0; % initialize sum to 0
for index = 1 : 5 % set up the loop index
    square = index ^ 2; % compute square of current loop index and
```

# Lab 1 Signals In Matlab

**D Sidentop**



## **Lab 1 Signals In Matlab:**

## **Lab 1 Signals In Matlab** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Lab 1 Signals In Matlab**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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