

Lab 03-Study of Signal Characteristics using MATLAB

3.1 Basic Signal Generation in MATLAB:

3.1.1 Unit Step Function:

The Heaviside step function, or the unit step function, usually denoted by u , is a discontinuous function whose value is zero for negative argument and one for positive argument.

The function is used in the mathematics of control theory and signal processing to represent a signal that switches on at a specified time and stays switched on indefinitely. Mathematically, a continuous time unit step function is written as

$$u(t) = \begin{cases} 1 & t \geq 0 \\ 0 & t < 0 \end{cases}$$

In discrete form, a unit step function can be mathematically written as

$$u[n] = \begin{cases} 1 & n \leq 0 \\ 0 & n > 0 \end{cases}$$

As explained in the previous lab, generation of continuous time signals is an artificial concept in MATLAB, so we would be dealing with discrete time unit step sequence. Graphically, unit step sequence is shown in figure 3.1.

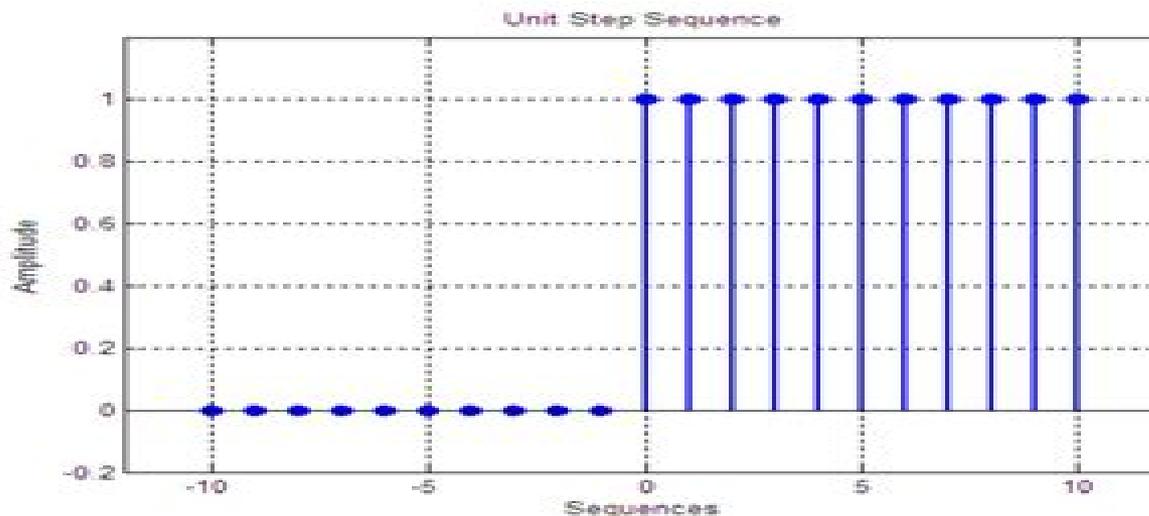


Figure 3.1: Unit Step Sequence

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Table of Contents Signals And Systems Using Matlab Solution

1. Understanding the eBook Signals And Systems Using Matlab Solution
 - The Rise of Digital Reading Signals And Systems Using Matlab Solution
 - Advantages of eBooks Over Traditional Books
2. Identifying Signals And Systems Using Matlab Solution
 - 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 Signals And Systems Using Matlab Solution
 - User-Friendly Interface
4. Exploring eBook Recommendations from Signals And Systems Using Matlab Solution
 - Personalized Recommendations
 - Signals And Systems Using Matlab Solution User Reviews and Ratings
 - Signals And Systems Using Matlab Solution and Bestseller Lists
5. Accessing Signals And Systems Using Matlab Solution Free and Paid eBooks
 - Signals And Systems Using Matlab Solution Public Domain eBooks
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 - Signals And Systems Using Matlab Solution Budget-Friendly Options
6. Navigating Signals And Systems Using Matlab Solution eBook Formats

- ePub, PDF, MOBI, and More
 - Signals And Systems Using Matlab Solution Compatibility with Devices
 - Signals And Systems Using Matlab Solution Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Signals And Systems Using Matlab Solution
 - Highlighting and Note-Taking Signals And Systems Using Matlab Solution
 - Interactive Elements Signals And Systems Using Matlab Solution
 8. Staying Engaged with Signals And Systems Using Matlab Solution
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Signals And Systems Using Matlab Solution
 9. Balancing eBooks and Physical Books Signals And Systems Using Matlab Solution
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Signals And Systems Using Matlab Solution
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Signals And Systems Using Matlab Solution
 - Setting Reading Goals Signals And Systems Using Matlab Solution
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Signals And Systems Using Matlab Solution
 - Fact-Checking eBook Content of Signals And Systems Using Matlab Solution
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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