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

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

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

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

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.

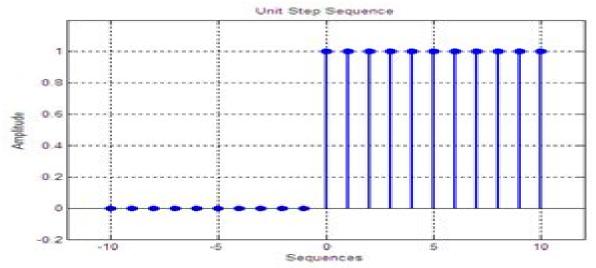


Figure 3.1: Unit Step Sequence

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Lab. Manual for CSE/CSE-DS/ AIML/AIDS students-A Practical Manual Dr. Rajiv Chopra, 2025-02-21 Lab Manual for CSE CSE DS AIML AIDS Students By Dr Rajiv Chopra This book serves as a comprehensive lab manual for B Tech students specializing in Computer Science Data Science Artificial Intelligence and Machine Learning Designed with a practical and experiment based approach it bridges the gap between theory and real world application Covering essential programming concepts AI ML techniques and hands on exercises this manual equips students with the skills needed for modern computing challenges Ideal for CSE IT ECE and related disciplines this book encourages students to explore experiment and apply their knowledge effectively in labs and projects Practicing Signals and Systems Laboratory Using Matlab Sudhakar Radhakrishnan, 2011-02 Normally everybody knows that laboratory practices are more important to reinforce the concepts of theory The number of theory books for signals and systems are very large whereas the respective lab manuals or lab books are small This book solves the problem This book gives the introduction about MATLAB its different commands in the first chapter so that it makes the user in a comfortable position when they are going to the remaining chapters The book is designed in such a way that the complete MATLAB script is given for each experiment which makes the reader to write additional programs on their own and verify the output The book is also intended to be used for self study The pictorial diagrams available at each and every step which makes the user to understand the concepts in a big way This book is targeted for undergraduate Electrical students and Professionals who are teaching Signals and Systems

Anywhere-Anytime Signals and Systems Laboratory Nasser Kehtarnavaz, Fatemeh Saki, Adrian Duran, Arian Azarang, 2020-07-09 A typical undergraduate electrical engineering curriculum incorporates a signals and systems course The widely used approach for the laboratory component of such courses involves the utilization of MATLAB to implement signals and systems concepts This book presents a newly developed laboratory paradigm where MATLAB codes are made to run on smartphones which are possessed by nearly all students As a result this laboratory paradigm provides an anywhere anytime hardware platform or processing board for students to learn implementation aspects of signals and systems concepts The book covers the laboratory experiments that are normally covered in signals and systems courses and discusses how to run MATLAB codes for these experiments as apps on both Android and iOS smartphones thus enabling a truly mobile laboratory paradigm

Digital Signal Processing Laboratory Experiments using MATLAB Hardik Modi,2014-03-24

Technical Report from the year 2014 in the subject Computer Science Technical Computer Science language English abstract This is Laboratory Manual of Digital Signal Processing All experiments are performed on MATLAB e g List of Experiments 1

To represent basic signals like Unit Impulse Ramp Unit Step Exponential 2 To generate discrete sine and cosine signals with given sampling frequency 3 To represent complex exponential as a function of real and imaginary part 4 To determine impulse and step response of two vectors using MATLAB 5 To perform convolution between two vectors using MATLAB 6 To

perform cross correlation between two vectors using MATLAB Signals and Systems Laboratory with MATLAB Alex Palamides, Anastasia Veloni, 2010-08-13 Developed as a textbook for the laboratory part of the course Signals and Systems this book introduces students to theory through analytical examples implemented in Matlab code Thus every theoretical equation is accompanied by the corresponding code implementation Instead of using big M Files or author written functions with comments the commands are executed one by one at the Matlab command line and the results dong with comments are given side by side in two or three column tables This is very helpful and popular to students in Electrical Engineering since the nature of this course includes detailed mathematical derivations and demands a strong mathematical background

Signals and Systems with MATLAB Won Young Yang,2009-06-18 This book is primarily intended for junior level students who take the courses on signals and systems It may be useful as a reference text for practicing engineers and scientists who want to acquire some of the concepts required for signal proce ing The readers are assumed to know the basics about linear algebra calculus on complex numbers differentiation and integration differential equations Laplace R transform and MATLAB Some knowledge about circuit systems will be helpful Knowledge in signals and systems is crucial to students majoring in Electrical Engineering The main objective of this book is to make the readers prepared for studying advanced subjects on signal processing communication and control by covering from the basic concepts of signals and systems to manual like introduc R R tions of how to use the MATLAB and Simulink tools for signal analysis and Iter design The features of this book can be summarized as follows 1 It not only introduces the four Fourier analysis tools CTFS continuous time Fourier series CTFT continuous time Fourier transform DFT discrete time Fourier transform and DTFS discrete time Fourier series but also illuminates the relationship among them so that the readers can realize why only the DFT of the four tools is used for practical spectral analysis and why how it differs from the other ones and further think about how to reduce the difference to get better information about the spectral characteristics of signals from the DFT analysis

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Labs for Signals and Systems Using MATLAB Virginia L.

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<u>Signals and Systems</u> Steven T. Karris,2008 Introductory text on Signals Systems and Signal Processing topics with MATLAB computations and modeling with Simulink **Mathematics Catalog 2005** Neil Thomson,2004-10 **Sol Man - Signals and Systems Laboratory with Matlab** Taylor & Francis Group,2010-08-03

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- 1. Understanding the eBook Signals And Systems Lab Manual Using Matlab
 - The Rise of Digital Reading Signals And Systems Lab Manual Using Matlab
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Signals And Systems Lab Manual Using 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 Signals And Systems Lab Manual Using Matlab
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Signals And Systems Lab Manual Using Matlab
 - Personalized Recommendations
 - $\circ\,$ Signals And Systems Lab Manual Using Matlab User Reviews and Ratings
 - Signals And Systems Lab Manual Using Matlab and Bestseller Lists
- 5. Accessing Signals And Systems Lab Manual Using Matlab Free and Paid eBooks
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- 6. Navigating Signals And Systems Lab Manual Using Matlab eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Signals And Systems Lab Manual Using Matlab Compatibility with Devices
 - Signals And Systems Lab Manual Using Matlab Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Signals And Systems Lab Manual Using Matlab
 - Highlighting and Note-Taking Signals And Systems Lab Manual Using Matlab
 - Interactive Elements Signals And Systems Lab Manual Using Matlab
- 8. Staying Engaged with Signals And Systems Lab Manual Using Matlab
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Signals And Systems Lab Manual Using Matlab
- 9. Balancing eBooks and Physical Books Signals And Systems Lab Manual Using Matlab
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Signals And Systems Lab Manual Using Matlab
- 10. Overcoming Reading Challenges
 - $\circ\,$ Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Signals And Systems Lab Manual Using Matlab
 - Setting Reading Goals Signals And Systems Lab Manual Using Matlab
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Signals And Systems Lab Manual Using Matlab
 - Fact-Checking eBook Content of Signals And Systems Lab Manual Using 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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