

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.

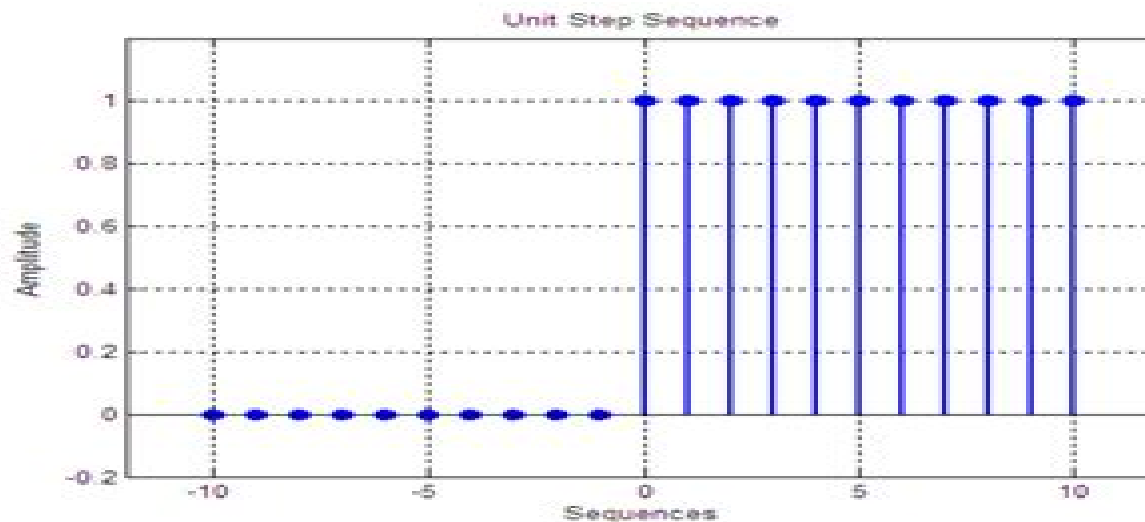


Figure 3.1: Unit Step Sequence

Signals And Systems Using Matlab Solution

Edward W. Kamen, Bonnie S. Heck



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Introductory text on Signals Systems and Signal Processing topics with MATLAB computations and modeling with Simulink

Solutions Manual for Signals and Systems Primer with Matlab Alexander D Poularikas, Poularikas Alexander D Staff, 2007-01-01 Signals and Systems K. Deergha Rao, 2018-04-20 This textbook covers the fundamental theories of signals and systems analysis while incorporating recent developments from integrated circuits technology into its examples Starting with basic definitions in signal theory the text explains the properties of continuous time and discrete time systems and their representation by differential equations and state space From those tools explanations for the processes of Fourier analysis the Laplace transform and the z Transform provide new ways of experimenting with different kinds of time systems The text also covers the separate classes of analog filters and their uses in signal processing applications Intended for undergraduate electrical engineering students chapter sections include exercise for review and practice for the systems concepts of each chapter Along with exercises the text includes MATLAB based examples to allow readers to experiment with signals and systems code on their own An online repository of the MATLAB code from this textbook can be found at github com springer math signals and systems *Fundamentals of Signals and Systems Using the Web and MATLAB* Edward W. Kamen, Bonnie S. Heck, 2000 For a Signals and Systems course in Engineering departments Developed from Professor Kamen s best selling text Introduction to Signals and Systems this forward looking text presents an accessible yet comprehensive analytical treatment of signals and systems and also incorporates a strong emphasis on solving problems and exploring concepts using MATLAB A MATLAB tutorial is provided on a disk which is available for student instructor use and all examples in the text are developed in terms of the Student Edition of MATLAB *Signals and Systems Using MATLAB®* Aydin Akan, Luis F. Chaparro, 2024-03-22 Signals and Systems Using MATLAB Fourth Edition features a pedagogically rich and accessible approach to what can commonly be a mathematically dry subject Historical notes and common mistakes combined with applications in controls communications and signal processing help students understand and appreciate the

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Transforms, and Digital Signal Processing with MATLAB Michael Corinthios, 2018-09-03 Signals Systems Transforms and Digital Signal Processing with MATLAB has as its principal objective simplification without compromise of rigor Graphics called by the author the language of scientists and engineers physical interpretation of subtle mathematical concepts and a gradual transition from basic to more advanced topics are meant to be among the important contributions of this book After illustrating the analysis of a function through a step by step addition of harmonics the book deals with Fourier and Laplace transforms It then covers discrete time signals and systems the z transform continuous and discrete time filters active and passive filters lattice filters and continuous and discrete time state space models The author goes on to discuss the Fourier transform of sequences the discrete Fourier transform and the fast Fourier transform followed by Fourier Laplace and z related transforms including Walsh Hadamard generalized Walsh Hilbert discrete cosine Hartley Hankel Mellin fractional Fourier and wavelet He also surveys the architecture and design of digital signal processors computer architecture logic design of sequential circuits and random signals He concludes with simplifying and demystifying the vital subject of distribution theory Drawing on much of the author's own research work this book expands the domains of existence of the most important transforms and thus opens the door to a new world of applications using novel powerful mathematical tools

Labs for Signals and Systems Using MATLAB Virginia L. Stonick, Kevin Bradley, 1996 This text uniquely connects theory with application using MATLAB and provides an appreciation for the underlying mathematics within linear system theory It ties MATLAB to the teaching of physical applications of signals and systems in a laboratory setting which Stonick is the first instructor in the country to accomplish

Computer, Communication, and Signal Processing. Smart Solutions Towards SDG Aravindan Chandrabose, Xavier Fernando, Eunika Mercier-Laurent, 2024-12-19 This book constitutes the refereed proceedings of the 8th IFIP TC 12 International Conference on Computer Communication and Signal Processing with special focus on Smart Solutions towards SDG ICCSP 2024 held in Chennai India during March 20-22 2024 The 32 full papers and 4 short papers presented in this book were carefully selected and reviewed from 166 submissions They were organized in topical sections as follows SDG 3 Good Health and Well Being SDG 4 Quality Education SDG 9 Industry Innovation and Infrastructure and SDG 11 Sustainable Cities and Communities

Numerical Linear Algebra in Signals, Systems and Control Paul Van Dooren, Shankar P. Bhattacharyya, Raymond H. Chan, Vadim Olshevsky, Aurobinda Routray, 2011-05-21 The purpose of Numerical Linear Algebra in Signals Systems and Control is to present an interdisciplinary book blending linear and numerical linear algebra with three major areas of electrical engineering Signal and Image Processing and Control Systems and Circuit Theory Numerical Linear Algebra in Signals Systems and Control will contain articles both the state of the art surveys and technical papers on theory computations and applications addressing significant new developments in these areas The goal of the volume is to provide authoritative and accessible accounts of the fast paced developments in computational mathematics scientific computing and computational engineering methods

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Signals, Systems, and Transforms Charles L. Phillips, John M. Parr, Eve Ann Riskin, 2008 For sophomore junior level signals and systems courses in Electrical and Computer Engineering departments Signals Systems and Transforms Fourth Edition is ideal for electrical and computer engineers The text provides a clear comprehensive presentation of both the theory and applications in signals systems and transforms It presents the mathematical background of signals and systems including the Fourier transform the Fourier series the Laplace transform the discrete time and the discrete Fourier transforms and the z transform The text integrates MATLAB examples into the presentation of signal and system theory and applications

IEEE Circuits & Devices ,1993

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