

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.

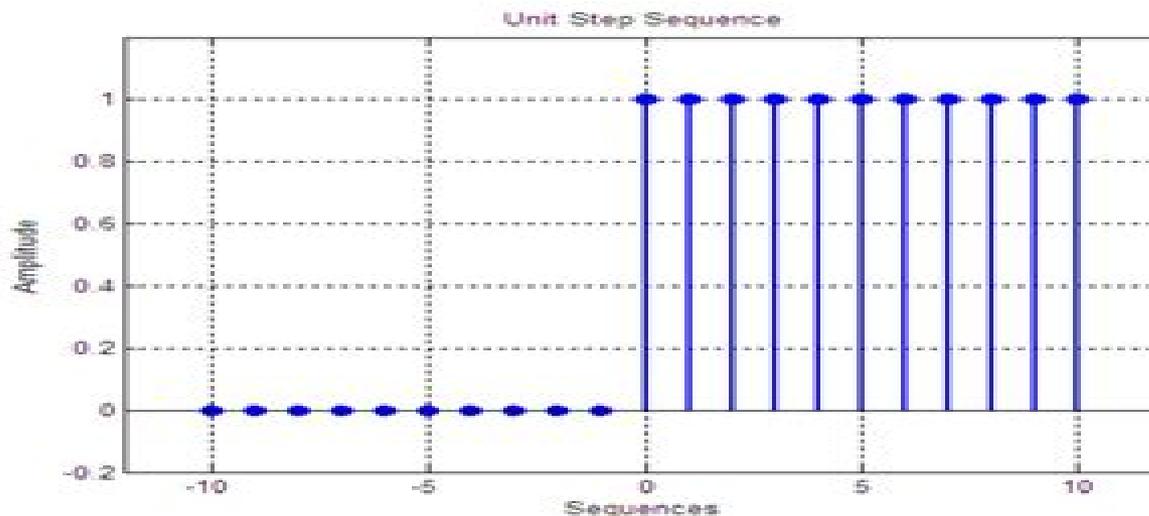


Figure 3.1: Unit Step Sequence

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