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The Scientist and Engineer's Guide to Digital Signal

Digital Signal Processing 10 Unit Step Signal A signal, which satisfies the following two conditions- 1. $(P)=1$ ($S \geq 0$) 2. $(P=0$ ($S < 0$) is known as a unit step signal. It has the property of showing discontinuity at $t=0$. At the point of discontinuity, the signal value is given by the average of signal value.

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Linear phase
No drift with time and temperature
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ECE 431 Digital Signal Processing Lecture Notes

circuits, these signal values have to be quantized into a set of discrete values, and the final result is called a digital signal. When the quantization effect is ignored, the terms discrete-time signal and digital signal can be used interchangeably. In signal processing, a system is defined as a process whose input and output are signals.

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