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## **The Scientist and Engineer's Guide to Digital Signal**

Typical signal processing ERASMUS Teaching (2008), Technische Universität Berlin Typical signal processing operations In the case of analog signals, most signal processing operations are usually carried out in the time domain. In the case of discrete time signals, both time domain and frequency domain applications are employed.

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Digital signal processing Analog/digital and digital/analog converter, CPU, DSP, ASIC, FPGA. Advantages: noise is easy to control after initial quantization highly linear (within limited dynamic range) complex algorithms into a single chip flexibility, parameters can easily be varied in software digital processing is insensitive to component tolerances, aging,

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Digital Signal Processing 10 Unit Step Signal A signal, which satisfies the following two conditions- 1.  $(P)=1$  ( $S\hat{,}P\neq 0$ ) 2.  $(P=0$  ( $S\hat{,}P<0$ ) 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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