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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. $(P)=1$ ($S_{\hat{t}} \hat{t} P \neq 0$) $\delta \cdot \hat{t}$ 2. $(P=0$ ($S_{\hat{t}} \hat{t} P < 0$) 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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Digital signal processing Analog/digital and digital/analog converter, CPU, DSP, ASIC, FPGA. Advantages: \hat{t} noise is easy to control after initial quantization \hat{t} highly linear (within limited dynamic range) \hat{t} complex algorithms \hat{t} into a single chip \hat{t} reconfigurability, parameters can easily be varied in software \hat{t} digital processing is insensitive to component tolerances, aging,

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digital signal is thus a quantized sampled-data signal. \hat{t} A continuous-time signal with discrete valued amplitudes has ... \hat{t} In the case of analog signals, most signal processing operations are usually carried out in the time domain.

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Digital vs analog processing Digital Signal Processing (DSPing) \hat{t} More flexible. \hat{t} Often easier system upgrade. \hat{t} Data easily stored -memory. \hat{t} Better control over accuracy requirements. \hat{t} Reproducibility. \hat{t} Linear phase \hat{t} No drift with time and temperature Advantages Limitations \hat{t} A/D & signal processors

speed:

Basics on Digital Signal Processing

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