

Example: Discrete to Continuous Time Linear Convolution

The CT input signal (red) $x(t)$ is approximated (blue) by:

$$\hat{x}(t) = \sum_{k=-\infty}^{\infty} x(k\Delta) \delta_{\Delta}(t - k\Delta) \Delta$$

Each pulse signal

$$\delta_{\Delta}(t - k\Delta)$$

generates a response

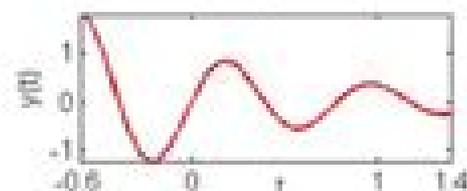
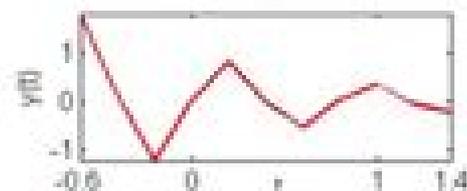
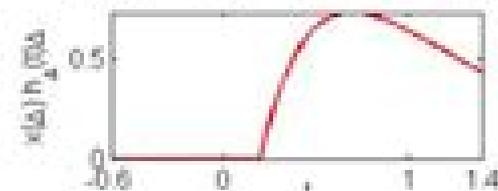
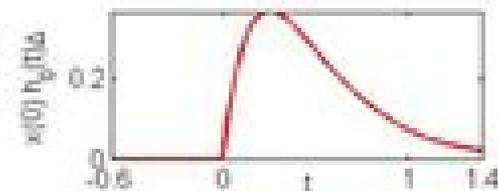
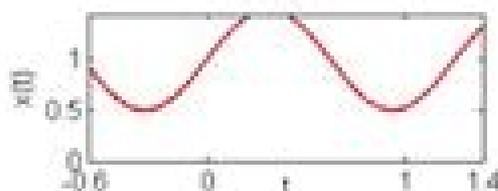
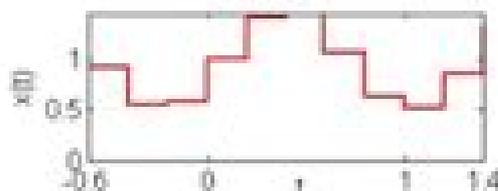
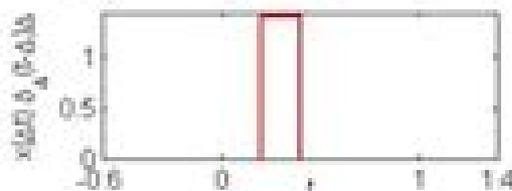
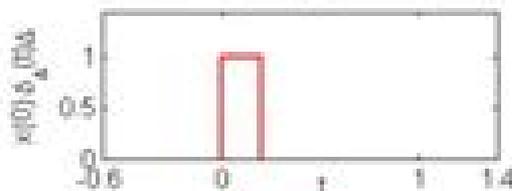
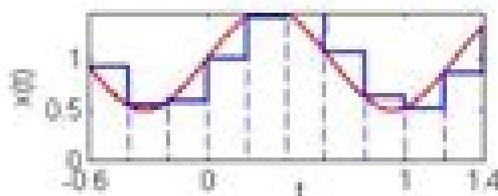
$$\hat{h}_{k\Delta}(t)$$

Therefore the DT convolution response is

$$\hat{y}(t) = \sum_{k=-\infty}^{\infty} x(k\Delta) \hat{h}_{k\Delta}(t) \Delta$$

Which approximates the CT convolution response

$$y(t) = \int_{-\infty}^{\infty} x(\tau) h_{\tau}(t) d\tau$$



Continuous And Discrete Linear Systems

Arturo Cuomo



Continuous And Discrete Linear Systems:

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