

Digital Signal Processing 1-2 Quiz

(1) Multiplication in the frequency domain is equivalent to _____ in the time domain?

(2) Fill in the missing equations

Autocorrelation

Cross-Correlation

Convolution

$$R_{f,g}(\tau) = \sum_{n=0}^{N-1} f[n]g[n + \tau]$$

(3) Draw and label the frequency response curves for a low-pass, high-pass, band-pass, and band-stop filter

(4) Describe a Morlet Wavelet.

(bonus) List three consequences of zero-phase filtering