

HW#13: Chapter 10

10.18 Power spectral density

10.20 Windowing and DTFT-Matlab

10.27 Frequency resolution of DFT-Matlab

10.28 DFT and IIR filters-Matlab

10.29 Circular and linear convolutions-Matlab

Note: in part (d), use the DFT circular convolution property to verify your results in part (c), i.e. $\text{DFT}\{x[n] \otimes y[n]\} = \text{DFT}\{x[n]\} \cdot \text{DFT}\{y[n]\}$