
EXERCISE 5.5: Use the “synthetic multiplication” convolution algorithm to compute the output $y[n]$ for the length-4 filter whose impulse response is $h[n] = \delta[n] - 2\delta[n - 1] + 2\delta[n - 2] - \delta[n - 3]$. Use the input signal given in Fig. 5-2(a) on p. 150.

