

EE 5654 - Digital Communications - Spring 2005
Homework 4
Due Thursday 3/31/05

1. Simulate the performance of BPSK in the presence of ISI where the discrete-time, white noise channel model is $h = [0.9, -0.15]$ for $E_b/N_0 = 0$ to 7dB. Compare with theory (zero ISI). Repeat for $h = [1 \ -0.75 \ .55 \ -0.025 \ 0 \ 0]$.
2. Repeat problem 1 with a zero-forcing equalizer with 11 taps.
3. Repeat problem 1 with a MMSE equalizer with 11 taps.