

EE 311

February 27, 2019

Park-McClellan FIR Filter

1. Use the Park-McClellan method (FIRPM) to design a FIR filter which meets the following specifications:

Sample frequency	11025Hz
Pass band	0 to 1000Hz
Pass band ripple	0.02
Stop band	2200Hz to $f_s/2$
Stop band ripple	0.02

Produce a magnitude plot, a phase plot, and a pole/zero plot for your filter.

Verify that your filter meets the specifications by looking at blow-ups of the stop and pass bands.