

ECE 580 PROJECT

Paper Due on Dec 8th

Code Due on Dec 7th

The natural modes of Chebyshev filters are given by the equations on p. 158 of the lecture notes.

1. Plot the pole Q (Q_p) of the dominant pole of a fifth-order Chebyshev filter as a function of α_p .
2. Find the value of the largest passband ripple α_p if the condition $Q_p < 5$ must hold. Repeat for $Q_p < 3$, $Q_p < 1$.