EECS 210 Section 2 – Lecture Summaries Lecture 36, Friday, April 6, 2001

- ➤ 5 parameters characterize a bandpass filter
 - \triangleright The center frequency, $_0$
 - The two cutoff frequencies, $_{c1}$ and $_{c2}$ (-3 dB points), (Note that $_{0}$ is geometric mean of $_{c1}$ and $_{c2}$)
 - \triangleright The bandwidth, = $_{c2}$ $_{c1}$
 - \triangleright And the Quality Factor, $Q = \sqrt{}$
- > Recipe for solution
 - ➤ Write H()
 - Convert to s-domain, H(s)
 - \triangleright Find zeros and poles of H(s)
 - For s = j, write H()
 - Plot $A_{dB} = 20 \log_{10} |H()|$ and H()