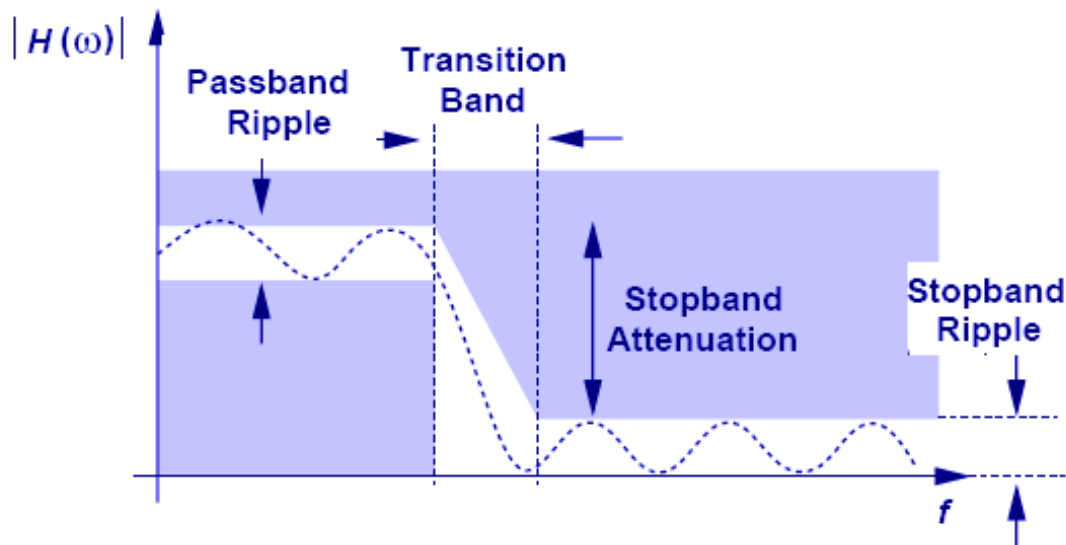


PSPICE Assignments #5

- Due: 2014/12/10(Wed) 3:30 PM
- Submit a hardcopy report.
- For any questions, send an e-mail to [yhhwang@isd1.snu.ac.kr](mailto:yhhwang@isd1.snu.ac.kr)

1. Design Chebyshev filter using Tow-Thomas structure in accordance with the following specifications. Use an opamp component in the spsice basic library. (DO NOT change opamp metric)



- Passband ripple  $< 1\text{dB}$
- Bandwidth( $\omega_0$ ) :  $10\text{MHz}$
- Attenuation at  $20\text{MHz} > 33\text{dB}$

- a) Determine the order of the filter to meet those specifications.
- b) Calculate the poles.
- c) Show your design including values of the parameters.
- d) Attach your simulation result that shows your design satisfies the specifications.

<End of PSPICE Assignments #5>