EECS 210 Section 2 – Lecture Summaries
Lecture 34, Monday, April 2, 2001

- Interpretation of the pole/zero plot where z_I are zeros and p_I are poles

  ➢ The $(s-z_i)$ and the $(s-p_i)$ are vectors in the s-domain

  ➢ Find $A_{dB} = 20\log_{10}(K) + \sum_{i=1}^{m} 20\log_{10}|s - z_i| - \sum_{i=1}^{n} 20\log_{10}|s - p_i|$

  ➢ Find $H( ) = K + \sum_{i=1}^{m}(s - z_i) - \sum_{i=1}^{n}(s - p_i)$

- Convert pole/zero plot to Bode plot by using straight-line approximations for each term in equation for A_{dB}

  ➢ Start with the baseline (constant)

  ➢ The computation sequence for higher order terms is not important