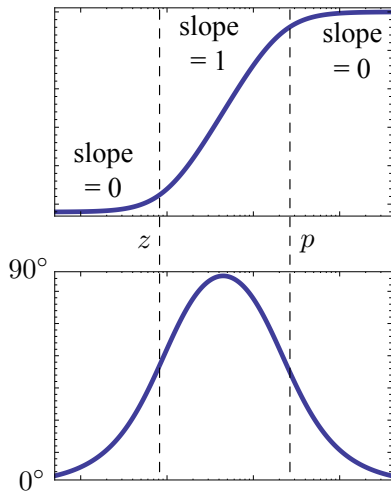


## Lead Compensation: Bode Plot

$$KD(s) = \frac{K \left( \frac{s}{z} + 1 \right)}{\left( \frac{s}{p} + 1 \right)}$$



- ▶ magnitude levels off at high frequencies  $\implies$  better noise suppression

- ▶ adds phase, hence the term “phase lead”