

$$2b) D(z) = \frac{1}{G_m(z)} \cdot \frac{C/R}{1 - C/R}$$

$$= \frac{30}{4} \left[\frac{z^3(z - 0.9355)}{z + 0.945} \right] \left[\frac{0.125}{(z-1)(z - [0.0625 \pm j0.348])} \right]$$

Pole @ $z=1 \Rightarrow$ Integral Action

All other poles lie within unit circle

