$$\theta = \cos^{-1} \zeta$$

$$\sigma = -\zeta \omega_{n}$$

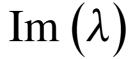
$$\lambda = \sigma + j\omega$$

$$\omega_{n}$$

$$\omega_{n}$$

 $\lambda = \sigma - j\omega$

semipiano stabile





$$\omega = \omega_{\rm n} \sqrt{1 - \zeta^2}$$

 $Re(\lambda)$

periodo crescente

tempo di raddoppio e ampiezza crescenti

semipiano instabile