

• Eligo
$$\Omega_{\omega} = \omega_{p}$$
, ontonos $\left[\omega_{p}_{N} = 1 \ \wedge \ \omega_{sN} = 2\right] \left(\omega_{s} = 2\omega_{p}\right)$
 $\xi^{2} = \Lambda_{0}^{\frac{\omega_{max}}{\Lambda_{0}}} - \Lambda = \Lambda_{0}^{\frac{N_{0}}{\Lambda_{0}}} - \Lambda$ $\int_{S} \left[\xi^{2} = 0.2589\right]$

· Consigo m:

$$|T(\omega)|^2 = \frac{1}{1+\xi^2 \omega^{3/3}} \rightarrow |T(s)|^2 = \frac{1}{1+\xi^2 (\frac{s}{3})^6} = \frac{1}{1-\xi^2 s^6}$$

$$|T(s)|^2 = \frac{-1/\xi^2}{s^6 - 1/\xi^2} = T(s) \cdot T(-s)$$

$$|T(s)|^2 = \frac{c}{s^3 + s^2 \alpha + s b + c} \cdot \frac{c}{-s^3 + s^2 \alpha - s b + c} = \frac{-\frac{1}{6^2}}{s^6 - \frac{1}{6^2}}$$

$$c^2 = \frac{1}{\xi^2} - \left[c = \frac{1}{\xi^2}\right]$$

$$0.5^{\frac{3}{2}} = 0.5^{\frac{3}{2}} = 0$$

$$0.5^{4} = 5^{3}(-5b) + 5^{2}a + 5^{2}$$

$$0.5^{3} = -25^{4} \cdot 0 + 125^{4} \cdot 0$$

$$0.5^{3} = 5^{3}6 - 5^{3}0.5 \cdot 0 + 50.5^{2}0 - 5^{3}6 = 0$$

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$$05^{3} = 5^{3}6 - 5 \text{ a.s.}b + 5b5 - a - 3 \text{ a.-}0$$

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$$05^{2} = 5^{2}a + 5b (-5b) + 5^{2}a - 0 = 2ac - b^{2} - b^{2} = 2ac$$

$$\left[C = \frac{1}{6}\right] \approx \left[\alpha^2 = 2b\right] \left[b^2 = 2ac\right]$$

$$\frac{\alpha^2}{7} = b \rightarrow \frac{\alpha^{3/3}}{4} = 2 \approx c \rightarrow \alpha^{3/3} = 6c$$

$$\alpha = \sqrt[3]{6c} = 2 \cdot (\xi^{-1})^{3/3} = \left[2 \xi^{-1/3} = \alpha\right]$$

$$\left[2\vec{\xi}^{73}\right]^{2} = 2b \implies \lambda^{2}\vec{\xi}^{73} = 2b$$

$$\left[2\vec{\xi}^{73}\right]^{2} = b$$

Entonces:
$$F^{1}$$

$$T(s) = \frac{F^{1}}{S^{3} + S^{2} 2 F^{3} + S 2 F^{2} + F^{1}}$$

Q= 1 = 1 = 1 = 1 = 1

$$|T(s)|^2 = \frac{1}{1-\xi^2 s^6}$$

$$T(s) = \frac{6\sqrt[3]{g^2} \cdot \omega_0^2}{\left(5 + 6\sqrt[3]{g^2}\right)\left(5^2 + 5 \frac{\omega_0}{Q} + \omega_0^2\right)} \quad con \begin{cases} Q = 1 \\ \omega_0 = 6\sqrt[3]{g^2} \end{cases}$$

$$con \begin{cases} Q = 1 \\ w_0 = \sqrt[6]{/} \frac{1}{6} \end{cases}$$

$$T(5) = \frac{\omega_0^3}{5^3 + 5^2 \left(\omega_0 + \frac{\omega_0}{Q}\right) + 5 \left(\omega_0^2 + \frac{\omega_0^2}{Q}\right) + \omega_0^3} \quad = 1$$

$$T(s) = \frac{\omega_0^3}{5^3 + 5^2 2\omega_0 + 5 2 \omega_0^2 + \omega_0^3}$$