

$$T(s) = \frac{V_2(s)}{V_1(s)} = \frac{Z_1Z_3 - Z_2Z_4}{Z_1Z_3 + Z_1Z_4}$$

Reemplazando Zi, Zz, Zz 7 Z4:

$$T(s) = \frac{V_2(s)}{V_1(s)} = \frac{P_4 P_3 - \frac{P_2}{sQ}}{P_4 P_3 + \frac{P_4}{sQ}} = \frac{\frac{sP_4 P_3 Q - P_2}{sQ}}{\frac{sP_4 P_3 Q + P_4}{sQ}} = \frac{sP_4 P_3 Q - P_2}{sP_4 P_3 Q + P_4}$$

$$T(s) = \frac{12_{1} 12_{3} c_{1}}{12_{1} 12_{3} c_{1}} = \frac{5 - \frac{R_{2}}{12_{1} R_{3} c_{1}}}{12_{1} 12_{3} c_{1}} = \frac{5 - \frac{R_{2}}{R_{1} R_{3} c_{1}}}{5 + \frac{1}{R_{2} R_{3} c_{1}}} = \frac{5 - \frac{R_{2}}{R_{1} R_{3} c_{1}}}{5 + \frac{1}{R_{2} C_{1}}}$$

$$\left[T(s)\right] = \frac{\frac{1}{s} + \frac{\Omega}{nF}}{\frac{1}{s} + \frac{1}{nF}} = \frac{\frac{1}{s} + \frac{1}{nF}}{\frac{1}{s} + \frac{1}{nF}} = \frac{\frac{1}{s}}{\frac{1}{s}}$$

$$|T(s)|_{s=f\omega} : \frac{j\omega - \frac{R_2}{R_1 R_3 G}}{j\omega + \frac{I}{R_3 G}} : \frac{\sqrt{\frac{R_2^2}{R_1^2 R_3^2 G^2} + (j\omega)^2}}{\sqrt{\frac{I}{R_3^2 G^2} + (j\omega)^2}}$$

$$\left|T(s)\right|_{s=j\omega} = \frac{\sqrt{\frac{R_1^2}{R_2^2R_3^2G^2} - \omega^2}}{\sqrt{\frac{I}{R_3^2G^2} - \omega^2}}$$

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$$\left| T(j\omega) \right|_{\omega_{1}=0} : \frac{\sqrt{\frac{R_{1}^{2}R_{3}^{2}Q_{1}^{2}}}}{\sqrt{\frac{I}{R_{2}^{2}Q_{2}^{2}}}} = \frac{R_{2}}{R_{1}}$$

$$\left| T(j\omega) \right|_{\omega_{1}=0} : \frac{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}}}{\sqrt{\frac{I}{R_{3}^{2}Q_{2}^{2}}} - \omega_{3}^{2}}$$

$$\left| T(j\omega) \right|_{\omega_{2}=0} : \frac{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}} - \omega_{3}^{2}}{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}} - \omega_{3}^{2}}$$

$$\left| T(j\omega) \right|_{\omega_{3}=0} : \frac{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}} - \omega_{3}^{2}}{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}} - \omega_{3}^{2}}$$

$$\left| T(j\omega) \right|_{\omega_{3}=0} : \frac{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}} - \omega_{3}^{2}}{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}} - \omega_{3}^{2}}$$

$$\left| T(j\omega) \right|_{\omega_{3}=0} : \frac{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}} - \omega_{3}^{2}}{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}} - \omega_{3}^{2}}$$

$$\left| T(j\omega) \right|_{\omega_{3}=0} : \frac{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}} - \omega_{3}^{2}}{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}}} - \omega_{3}^{2}}$$

$$\left| T(j\omega) \right|_{\omega_{3}=0} : \frac{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}} - \omega_{3}^{2}}{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}}} - \omega_{3}^{2}}$$

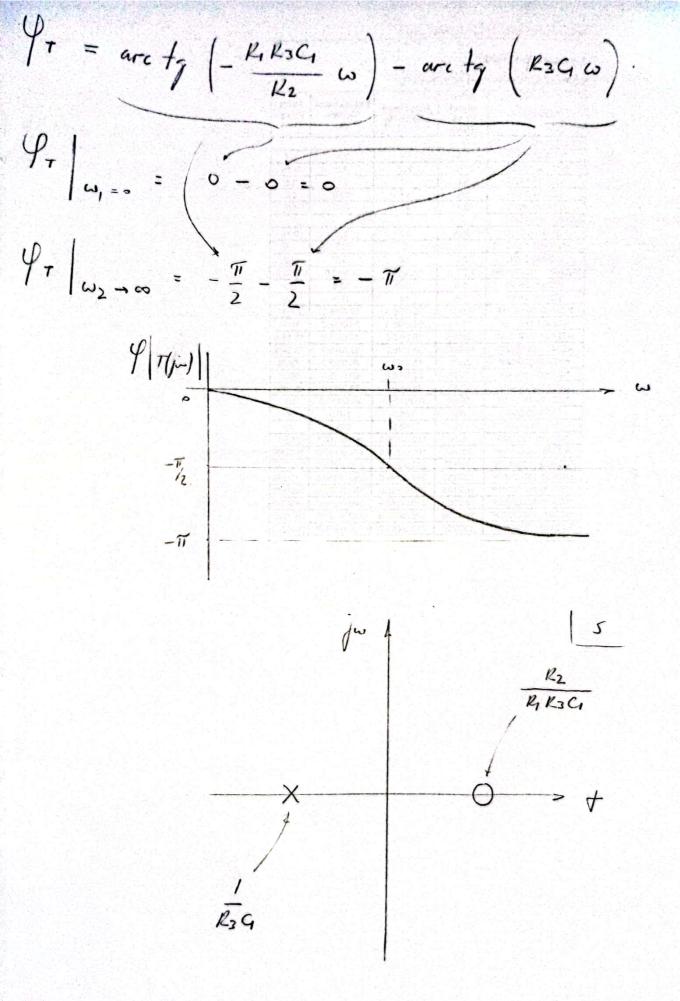
$$\left| T(j\omega) \right|_{\omega_{3}=0} : \frac{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}} - \omega_{3}^{2}}{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}}} - \omega_{3}^{2}}$$

$$\left| T(j\omega) \right|_{\omega_{3}=0} : \frac{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}} - \omega_{3}^{2}}{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}}} - \omega_{3}^{2}} \right|_{\omega_{3}=0}$$

$$\left| T(j\omega) \right|_{\omega_{3}=0} : \frac{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}} - \omega_{3}^{2}}{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}} - \omega_{3}^{2}} \right|_{\omega_{3}=0}$$

$$\left| T(j\omega) \right|_{\omega_{3}=0} : \frac{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}} - \omega_{3}^{2}}{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}} - \omega_{3}^{2}} \right|_{\omega_{3}=0}$$

$$\left| T(j\omega) \right|_{\omega_{3}=0} : \frac{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}} - \omega_{3}^{2}} - \omega_{3}^{2}} \right|_{\omega_{3}=0} : \frac{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}} - \omega_{3}^{2}}{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}} - \omega_{3}^{2}} \right|_{\omega_{3}=0} : \frac{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}} - \omega_{3}^{2}} - \omega_{3}^{2}} \right|_{\omega_{3}=0} : \frac{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}} - \omega_{3}^{2}} - \omega_{3}^{2}} \right|_{\omega_{3}=0} : \frac{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}}} - \omega_{3}^{2}} - \omega_{3}^{2}} - \omega_{3}^{2}} \right|_{\omega_{3}=0} : \frac{\sqrt{\frac{I}{R_{3}^{2}Q_{1}^{2}}}} - \omega_{3}^{2}} - \omega_{3}$$



Se truta de un filtro pura todo.

$$T(s) = \frac{s - \frac{R_2}{R_1 R_3 G}}{s + \frac{1}{R_2 G}} = \frac{s - \left(\frac{R_2}{P_1}\right) \frac{1}{P_3 G}}{s + \frac{1}{R_3 G}} = \frac{s - \left(\frac{R_2}{P_1}\right) \frac{1}{P_3 G}}{s + \frac{1}{R_3 G}} = \frac{1}{R_2 G}$$

$$T(s) = \frac{s - D\omega_0}{s + \omega_0}; \neq \frac{s}{2\omega}; T(\phi) = \frac{\phi\omega_0 - D\omega_0}{\phi\omega_0 + \omega_0}$$

$$T(x) = \frac{\omega_0}{\omega_0} = \frac{x-D}{x+1}$$