$$\frac{Y_{11}}{S^{2}+2} = \frac{3s(s^{2} + \frac{7}{3})}{(s^{2}+2)(s^{2}+5)}$$

$$\frac{Y_{21}}{(s^{2}+2)(s^{2}+5)}$$

$$\frac{Y_{21}}{S^{2}+2} = \frac{s(s^{2}+1)}{(s^{2}+2)(s^{2}+5)}$$

$$\frac{Y_{21}}{Y_{21}} = \frac{T_{2}}{T_{1}} = \frac{T_{2}}{T_{1}} = \frac{(s^{2}+1)}{3(s^{2}+\frac{7}{3})}$$

$$\frac{Y_{21}}{Y_{21}} = \frac{T_{2}}{Y_{1}}$$

$$\frac{Y_{21}}{Y_{21}} = \frac{T_{2}}{Y_{1}}$$

$$\frac{Y_{22}}{Y_{23}} = \frac{T_{2}}{Y_{24}}$$

$$\frac{Y_{23}}{Y_{24}} = \frac{T_{2}}{Y_{24}}$$

$$\frac{Y_{24}}{Y_{24}} = \frac{T_{2}}{Y_{24}}$$

$$\frac{Y_{25}}{Y_{25}} = \frac{T_{2}}{Y_{25}}$$

- · Empezar en serie
- · Terminar en derivación

Terminar on derivation
$$Z_{2} = \frac{54+75^{2}+10-35^{2}-7}{35\left(5^{2}+\frac{7}{3}\right)} = \frac{54+45^{2}+3}{35\left(5^{2}+\frac{7}{3}\right)} \rightarrow V_{2} = \frac{35^{3}+75}{(5^{2}+1)(5^{2}+3)}$$

$$V_{11} = \frac{10}{35\left(5^{2}+\frac{7}{3}\right)} = \frac{54+45^{2}+3}{35\left(5^{2}+\frac{7}{3}\right)} \rightarrow V_{2} = \frac{35^{3}+75}{(5^{2}+1)(5^{2}+3)}$$

$$V_{12} = \frac{1}{35\left(5^{2}+\frac{7}{3}\right)} = \frac{54+45^{2}+3}{35\left(5^{2}+\frac{7}{3}\right)} \rightarrow V_{2} = \frac{35^{3}+75}{(5^{2}+1)(5^{2}+3)}$$

$$V_{12} = \frac{1}{2} \times \frac{1}{2}$$

$$V_{13} = \frac{1}{2} \times \frac{1}{2}$$

$$V_{13} = \frac{1}{2} \times \frac{1}{2} \times$$

 $Z_2 = \frac{1}{Y_{11}} - \frac{K_0^1}{5} / K_0^1 = \lim_{S^2 \to -1} \frac{5 \cdot \frac{1}{Y_{11}} = \lim_{S^2 \to -1} \frac{(S^2 + 2)(S^2 + 5)}{3(S^2 + \frac{7}{25})} = 1 \to C_1 = 1$

$$Z_{11} = Z_{A} + Z_{12} = \frac{1}{5} + \frac{5^{2}+1}{25} = \frac{5^{2}+3}{25}$$

$$Z_{22} = Z_{C} + Z_{12} = 5 + \frac{3}{5} + \frac{5^{2}+1}{25} = \frac{35^{2}+7}{25}$$

$$AZ = Z_{11}Z_{22} - Z_{12} = \frac{(5^{2}+3)(35^{2}+7)}{45^{2}} - \frac{(5^{2}+1)^{2}}{45^{2}} = \frac{35^{4}+75^{2}+95^{4}+21-5^{4}-25^{2}-1}{45^{2}} = \frac{5^{4}+75+10}{25^{2}}$$

$$V_{11} = \frac{Z_{22}}{AZ} = \frac{\frac{35^{2}+7}{25}}{\frac{5^{4}+75+10}{25^{2}}} = \frac{35(5^{2}+7_{3})}{(5^{2}+2)(5^{2}+5)}$$

 $V_{21} = \frac{Z_{21}}{AZ} = \frac{\frac{5^{2}+1}{25}}{\frac{5^{4}+75+10}{25}} = \frac{5(5^{2}+1)}{(5^{2}+2)(5^{2}+5)}$

$$T(S) = \frac{V_z}{V_1} = \frac{K(S+1)}{(S+2)(S+4)} = \frac{Z_{12}}{Z_{11}} = -\frac{Y_{12}}{Y_{22}} \Rightarrow Z_{11} = \frac{Q(S)}{D(S)} = \frac{(S+2)(S+4)}{(S+1)(S+3)}$$

$$Z_1 = 0 \qquad \text{Emprezo en Serie}$$

$$Z_2 = Z_{11} - K_{00} = \frac{S^2 + 6S + 8}{(S+1)(S+3)} - A = \frac{S^2 + 6S +$$

T(6)
$$\frac{\sqrt{2}}{\sqrt{2}}$$
 $\frac{\sqrt{2}}{\sqrt{2}}$ $\frac{\sqrt{2}}$

$$Z_{11} = \frac{Q(5)}{D(5)} = \frac{(5+2)(5+4)}{(5+1)(5+3)}$$

$$Z_{2} = Z_{11} - K_{\infty} = \frac{5^{2}+65+8}{(5+1)(5+3)} - I = \frac{25+5}{(5+1)(5+3)}$$

$$Z_{4} = Z_{2} - \frac{K_{1}}{5+1} / K_{1} = \lim_{S \to -1} (5+1) \cdot Z_{4} = \frac{3}{2} \rightarrow R = \frac{3}{2} \quad C = \frac{2}{3}$$

$$Z_{4} = \frac{25+5-\frac{3}{2}5-\frac{9}{2}5}{(5+1)(6+3)} = \frac{1}{2} \rightarrow X_{4} = \frac{5+3}{2}$$

$$Y_{6} = X_{4} - K_{\infty}S / K_{\infty} = \lim_{S \to \infty} \frac{X_{4}}{5} = 2 \rightarrow C = 2$$

$$Y_{6} = \frac{5+3}{2} - 2S = 6 \rightarrow R = \frac{1}{6}$$

$$T(G) = \frac{K}{8}$$

$$T(\infty) = 0$$

$$W_{1} = \frac{1}{2} \rightarrow K = \frac{1}{2} \rightarrow K = \frac{1}{2}$$

$$X_{2} = \frac{1}{2} \rightarrow K = \frac{1}{2} \rightarrow K = \frac{1}{2}$$

$$X_{3} = \frac{1}{2} \rightarrow K = \frac{1}{2} \rightarrow K = \frac{1}{2}$$