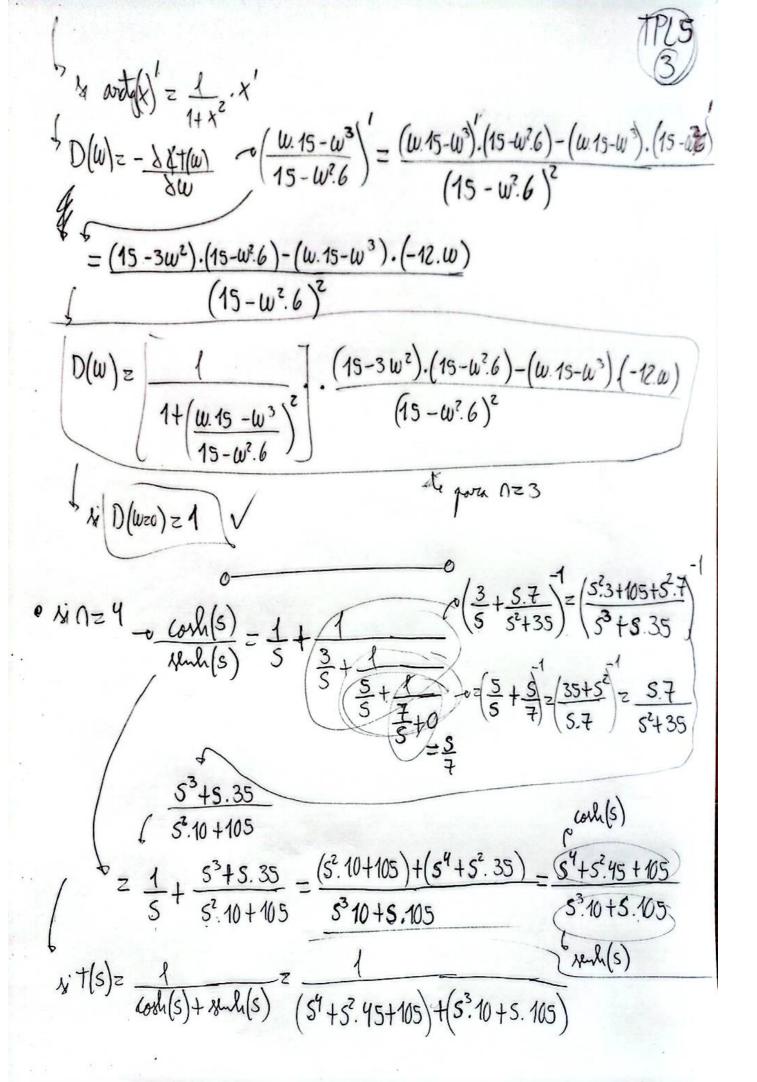
1) & mepide D(wzo)z12/2 parabaja · NINZZ - con(s) = 1 + 1 = 52+3 - o sen(s) $D(w) = \frac{1}{3} \frac{1}{$

$$D(w) = \frac{1}{1 + \frac{1}{(3w)^2}} \cdot \frac{9 + 3w^2}{(3 - w^2)^2}$$

$$v_1 = \frac{1}{1 + \frac{1}{(3w)^2}} \cdot \frac{9 + 3w^2}{(3 - w^2)^2}$$

$$v_2 = \frac{1}{1 + \frac{1}{(3w)^2}} \cdot \frac{9 + 3w^2}{(3 - w^2)^2} \cdot \frac{1}{1 + \frac{1}{(3w)^2}} \cdot \frac{1}{(3w)^2} \cdot \frac{1}{(3w)^2}$$

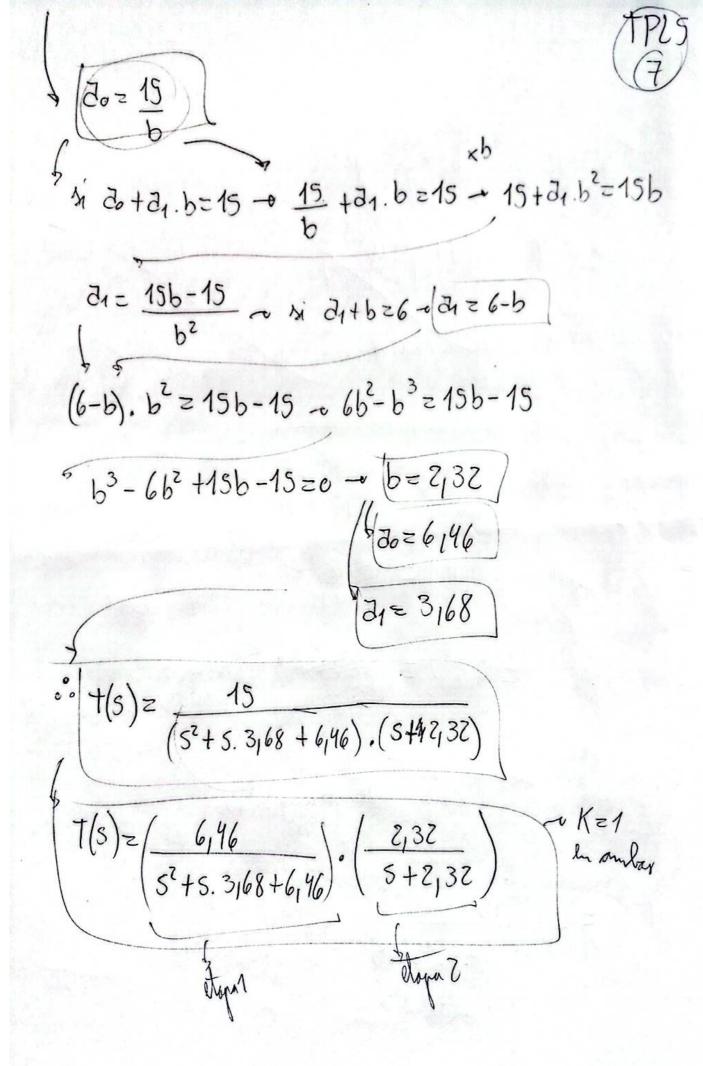


1.105 54+53.10+52.45+5.105+105 t(5) z $4w^4 - jw^3.10 - w^2.45 + jw.105 + 105$ $\frac{1}{(w^4 - w^2.45 + 105) + j(w.105 - w^3.10)}$ $\chi + (\omega) = - and \left(\frac{\omega.105 - \omega^3.10}{\omega^4 - \omega^2.45 + 105} \right)$ si anty(x) $= \frac{1}{1+x^2} \cdot x'$ $\frac{(\omega.105-\omega^{3}.10)}{(\omega^{4}-\omega^{2}.45+105)} = \frac{(\omega.105-\omega^{3}.10)\cdot(\omega^{4}-\omega^{2}.45+105)-(\omega.105-\omega^{3}.10)\cdot(\omega^{4}-\omega^{2}.45+105)}{(\omega^{4}-\omega^{2}.45+105)^{2}}$ (105-w².30).(w⁴-w².45+105)-(w.105-w³.10).(4.w³-w.90) $(w^4 - w^2.45 + 105)^2$ 60=4 D(w=0)=1

nz 3 por ver el mínimo orden de camplimiento

3) $\sqrt{|D(w=2|5)|_{n=3}} = 0.75$ 6 1/ D(w=0) = 1 J Error Porcentral = D(w=215) - D(w=0) . 100

Nover D(w=0) . 100 Error Porcentral = 25% rejecto D(w=0) 4) Ni etoy en orden AZ3 y guiero un Sallen-Key de K=1 $T(S) = \frac{45.15}{(S^2+31.5+36).(5+6)}$ $t(s)z = \frac{15}{5^3 + 5^2.(3+b) + 5.(3+31.b) + 36.b}$ * iquals a +(s) | = 3 ham



Vx. (61+62+5C2)-Vi. (61)-Vo. (62+5C2)=0 $- x = \sqrt{x} \cdot \frac{1}{5c_1+1} \sqrt{x} = \left(\frac{5c_1}{6z} + 1\right) \cdot \sqrt{x}$

$$\frac{V_{0}(\frac{SC_{1}+1}{Gz}+1) \cdot (G_{1}+Gz+SC_{2}) - V_{0} \cdot (G_{2}+SC_{2})}{V_{0}(\frac{SC_{1}}{Gz}+1) \cdot (G_{1}+Gz+SC_{2}) - V_{0} \cdot (G_{2}+SC_{2})} = V_{1}(G_{1})$$

$$\frac{V_{0}(\frac{SC_{1}}{Gz}+1) \cdot (G_{1}+SC_{1}+SC_{1}+SC_{1}) - (G_{2}+SC_{2})}{Gz} = V_{1}(G_{1})$$

$$\frac{V_{0}(\frac{G_{1}+Gz}{Gz}+1) \cdot (G_{1}+Gz+SC_{2})}{Gz} - (G_{2}+SC_{2}) = V_{1}(G_{1})$$

$$\frac{C_{1}(\frac{G_{1}+Gz}{Gz}+1) \cdot C_{1}(\frac{G_{1}+Gz}{Gz}+1)}{C_{1}(\frac{G_{1}+Gz}{Gz}+1)} + C_{1}(G_{1}+G_{2})$$

$$\frac{G_{2}G_{1}}{G_{1}G_{2}} - C_{1}(G_{2}+$$

Escaneado con CamScanner

