$I = (R-I) \times_{pS} + K_{l}$ $S = \frac{1}{L_{S}+R}$ OS polos São da segurate fonção $I \left(\frac{s(L_{S}+R)+K_{pS}+K_{l}}{S(L_{S}+R)}\right) = \frac{K_{lS}K_{pS}+K_{l}}{S(L_{S}+R)}$ $I \left(\frac{s(L_{S}+R)+K_{lS}+K_{l}}{S(L_{S}+R)}\right) = \frac{K_{lS}K_{lS}+K_{l$

$$G(s) = \frac{\omega n^2}{s^2 + 25\omega n s + \omega n^2}$$

$$\int Kd = 2mSun - b$$

$$Kp = m Um^{2}$$

$$\frac{b+kd}{m} = 25 wn$$

$$\frac{kp}{m} = wn^2$$

$$\frac{F(s)(|K_p + Kds|) = Wn^2}{m}$$

$$\frac{F(s) = Wn^2 \cdot m}{K_p - Kds} = \frac{K_p}{K_p + Kds}$$