$\frac{17/4}{\text{Wilipedia. urg/curli/Buthawath-Viler:}} \frac{(p+1)(p^2+0.445p+1)(p^2+1.243p+1)(p^2+1.8043p+1)}{(p+1)(p^2+1.8043p+1)(p^2+1.8043p+1)}$ Co unualised demunerator - polynom $p = \frac{s}{\omega_b}$ I $\stackrel{\circ}{\square}\omega_b$ to align parsonal framery $\stackrel{\circ}{\square}\omega_b$ $\frac{1}{3} \frac{1}{3} \frac{1}{$

Thequeucy response graph $G(j\omega)$ within allowed flame T by cho sing $f_0 = 3Hz$ ($\omega_0 = 6\pi \frac{rad}{s}$):

$$G(s) = \frac{1}{\left(\frac{s}{\omega_{0}} + 1\right)\left(\left(\frac{s}{\omega_{0}}\right)^{2} + 0.445 \cdot \frac{s}{\omega_{0}} + 1\right)\left(\left(\frac{s}{\omega_{0}}\right)^{2} + 1.24\right) \cdot \frac{s}{\omega_{0}} + 1\right)\left(\left(\frac{s}{\omega_{0}}\right)^{2} + 1.8019 \cdot \frac{s}{\omega_{0}} + 1\right)}$$