

$$\alpha = \frac{U_{\text{hom}} - I_{\text{hom}} r_{\text{g}}}{\omega_{\text{hom}}} = \frac{24 - 2.16 \cdot 1.15}{0.049} = 0.04$$

$$\omega_{0} = \frac{U}{\alpha} = \frac{24}{0.04} = 600 \frac{1}{c}$$