Sub into temperate 1-00 max phase as fine or Leadrated

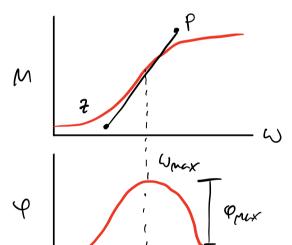
Lendratio (1) as function of required phase

From Gree and Unex:

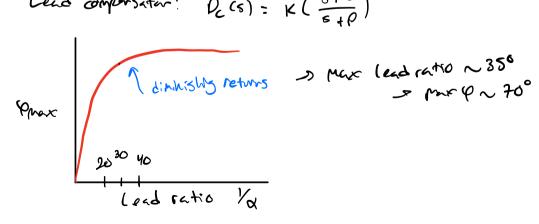
Pole -

$$\frac{\alpha}{\alpha} = \frac{1 - s \cdot h \cdot \rho_{max}}{1 + s \cdot h \cdot \rho_{max}}$$

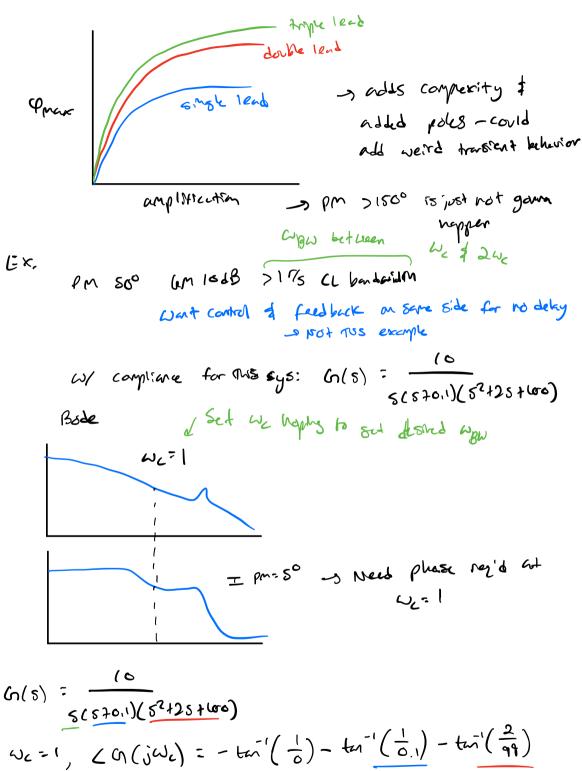
$$\omega_{max} = \sqrt{2p} = p \sqrt{\alpha} \implies p = \frac{\omega_{max}}{\alpha}$$



Lead comparsator:
$$O_{C}(s) = K\left(\frac{s+2}{s+p}\right)$$



Held pare: cascaded lead comparstors



$$\omega_{c}=1$$
, $\omega_{c}=1$,

$$\begin{array}{lll}
& \text{Prop'd} = \text{PM tench} - \left(2 \text{ M(u)}\right)_{\text{Litables}}^{\text{Litables}} \\
& \text{PM} = 500 \text{ Need }^{\text{Q}} 45.3 & \text{Where} = 4C = 1 \\
& \text{M} = \frac{2}{\rho} = \frac{1 - 5 \text{Mpmr}}{1 + 5 \text{Mpmr}} \stackrel{?}{=} 0.168 \\
& \text{Not tolore} (>30) \\
& \text{Most} = \frac{2 - 4 \text{Most}}{1 + 5 \text{Mpmr}} \stackrel{?}{=} 0.168 \\
& \text{Plend} = \frac{2 - 4 \text{Most}}{1 + 5 \text{Mpmr}} \stackrel{?}{=} 0.168 \\
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& \text{Plend} = \frac{2 - 4 \text{Mpmr}}{1 + 5 \text{Mpmr}} \stackrel$$

(heck Pm, Gm, UBW

pm = 50° (exactly as reeld)

Gm = 21.1dB

