Stability

November 23, 2017

Mark scaling: $x+0.9*(x-0.01x^2)$

Recoll Basic Feedback:

Source
$$\frac{\chi_{S}}{\chi_{S}}$$
 $\frac{\chi_{S}}{\Lambda}$ $\frac{\chi$

hop gain:
$$L(jw) = A(jw)\beta(jw)$$

$$= |A(jw)\beta(jw)| e^{\frac{j\varphi(w)}{phase}}$$
phase of loop gain.

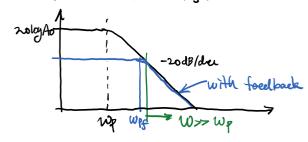
When 20(4) = 180°. then

Poles of feedback amplifier:

$$ACs = \frac{Ao}{1 + (\frac{z}{Lop})}$$

$$A_{f(s)} = \frac{\frac{A_0}{1+A_0\beta}}{1+\frac{s}{\mu_p(1+A_0\beta)}}$$
 (Banelwidth extension)

If w>> Was then Ag(s) \$\approx A(s)



Consider two-pole amplificar

