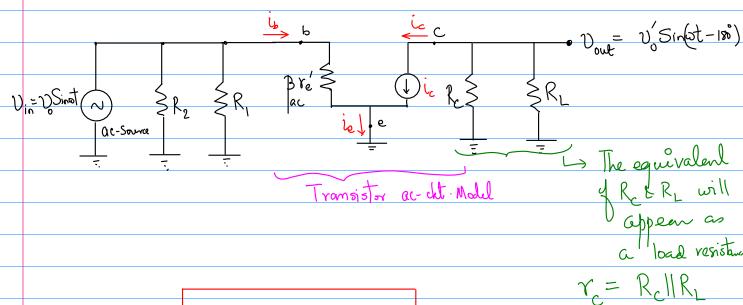


ac-equivalent det y the CE amplifier:



Estimation of voltage-gain:

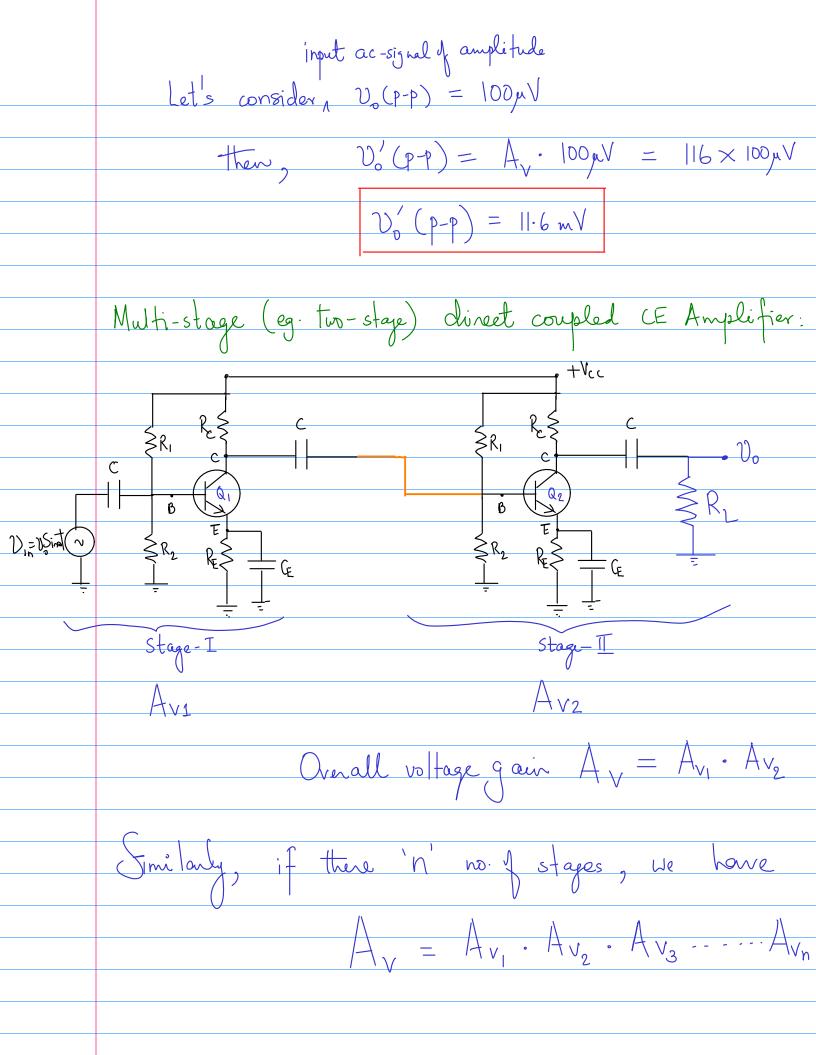
$$\gamma_{c} = 3.6k \Omega | 10k \Omega = 3.6 \times 10 k \Omega$$

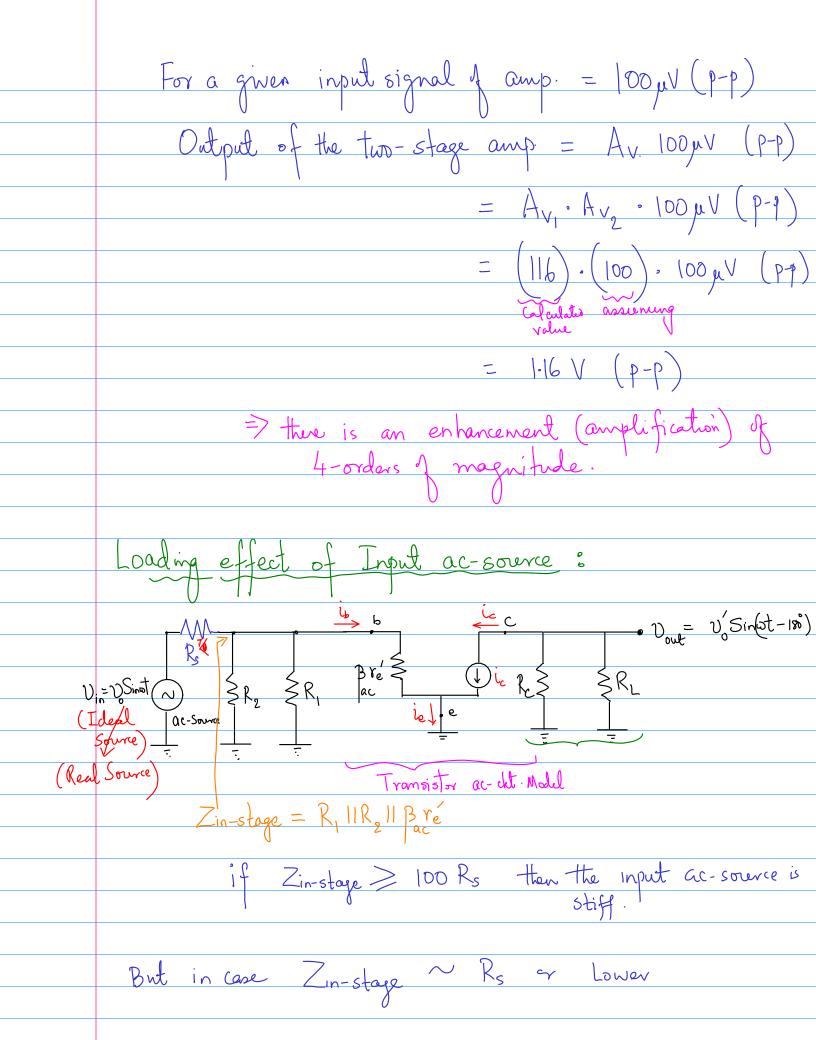
≈ 116

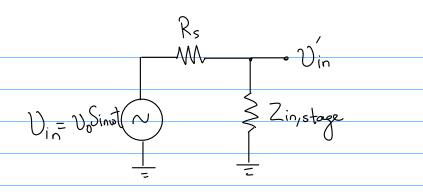
$$\gamma_{c} = \frac{36}{13.6} kA = 2.65 kA$$

Also,
$$\gamma_e' = 25\text{mV} = 22.7 \Omega$$

Therefore,
$$A_{v} = \frac{v_{c}}{v_{e}'} = \frac{2.65 \, \text{k} \Omega}{22.7 \, \Omega} = \frac{2650}{22.7}$$







If the stiff cond is neeting then $\mathcal{D}_{in} = \mathcal{D}_{in} = \mathcal{V}_{o} \operatorname{Sinot}$ In case the stiff cond is not meeting then,