





$$V_{o} = g_{m} \cdot V_{sg} \left(\frac{v_{o}}{R_{D}} \right) \qquad [Q/P \ V]$$

$$A_{V} = \frac{V_{o}}{V_{i}} = -g_{m} \left(\frac{v_{o}}{R_{D}} \right) \qquad [V-gain]$$

$$Practical Common-Source Amplifier: 9 VDD

$$R_{s} \quad V_{o} = \frac{R_{D}}{V_{o}} \quad V_{o} = \frac{R_{D}}{V_{$$$$





