Outline

• Transistors/FET’s continued
• From now, **Convention: I and V are for quiescent current and voltage, whereas i and v are deviation from the quiescent current and voltage.**

Single PS AC amp (still emitter follower)

- If you are **not** interested in amplifying DC signal, you can get away with having only one PS (say positive only)
- Suppose the input signal hovers around 0 (ground level) what would be $V_B$?
- What is the -3dB frequency of this circuit?
- What is the average (DC) output voltage?

Common Emitter Amp (real amp!)

- This amp does amplify the signal voltage, i.e. $v_C/v_B > 1$.
- What is the quiescent voltages and current: $V_B, V_E, V_C, I_B, I_E$, and $I_C$?