

## E151 Lecture 7 Handout

What is the defining feature of a common emitter and why is it easy to analyze?

What specifications/parameters are in our generic amplifier model? Draw the generic amplifier model.

What are  $r_{in}$ ,  $r_{out}$  and  $a_v$  of a common emitter amplifier?

What's a typical way to get small signals into a biased BJT? What's the mid-band?

Draw a picture and list the issues with series voltage source biasing.

Draw a picture a list the issues with series resistor current control biasing.

Draw a picture of the “standard” common emitter biasing. What does  $C_e$  do?

Can you use a voltage divider formula when biasing a BJT base with two resistors?

Draw a common emitter amplifier using any biasing scheme.