Lecture 07 -- The Common Emitter Amplifier

Make sure to fill out handouts 5 & 6 during this lecture

Draw a common emitter amplifier using any biasing scheme.

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

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 Ce do?

What are some common amplifier specifications that we might care about?

What are some other amplifier specifications we might care about?

Draw a graph of the large signal voltage transfer characteristic of a common emitter amplifier and a load line analysis of a resistively loaded common emitter amplifier.

What are the voltage gain, input resistance and output resistance of a common emitter?