

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 C_e 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?