

Lecture 11 -- Common Base Amplifiers, Active Loads and Cascodes

Draw a common base amplifier and list a common application

What are R_{in} , R_{out} and A_v of a common base amplifier

Describe how to develop a T-model for common base amplifier analysis

What is the current gain of a common base amplifier?

Why is it hard to bias a common base amplifier?

Draw a CE-CB multistage amplifier (often called a cascode amplifier) loaded with a current source. What is its r_{in} , r_{out} , a_v , V_{OMAX} and V_{OMIN} ? (Are there tricks to analyzing a_v ?)

Draw a common emitter amplifiers loaded with diodes and PNP devices. What are their r_{in} , r_{out} , a_v , V_{OMAX} and V_{OMIN} ?