

E151 Lecture 10 Handout

Draw the RE boosting small signal pattern, write down its Thevenin resistance, and indicate an amplifier parameter that is described by this pattern.

Draw the left-right small signal pattern, write down its Thevenin resistance, and indicate an amplifier parameter that is described by this pattern.

Draw the $1/g_m$ small signal pattern, write down its Thevenin resistance, and indicate an amplifier parameter that is described by this pattern.

How do you deal with an element that is in parallel with a small signal pattern?

How can you simplify a small signal pattern that has a voltage divider on its control voltage?

What is r_{in} for an emitter degenerated common emitter amplifier if r_o is ignored?

What is a_v for an emitter degenerated common emitter amplifier if r_o is ignored?

What is r_{out} for an emitter degenerated common emitter amplifier if r_o is ignored?