

Lecture 16 -- SCTC and Cascodes

What is a simple mnemonic for remembering which caps belong in an OCTC analysis?

Calculate the OCTC of the practice circuit on the board.

What is the derivation for the handy R_{th} formula for C_{mu} ?

What do we use short circuit time constants to calculate?

What is the assumed form of the transfer function in a SCTC analysis?

How do the sum of the pole frequencies relate to the sum of the SCTC? What is a SCTC?

What capacitors are included in an SCTC analysis?

What are some conditions under which a SCTC analysis will prove inaccurate?

What amplifiers comprise a cascode?

What is the R_{in} , R_{out} and A_v of a cascode?

How does a cascode improve bandwidth?