

ENEE 417 - Fall 2001

Weeks #7-#8

Design #3: Oscillator, Current Mirrors or Differential Pair Design

In this experiment an oscillator, current mirrors or a differential pair circuit will be designed, constructed, and tested. Chose any standard circuit among these classes and make sure the week before that the lab technicians have any special parts needed.

1. Design the circuit and run Spice simulations; then construct and test
2. Write a one to two page report summarizing your study.
3. Make a vlsi layout for your circuit, do a Spice extraction and compare with the results of a Spice design.