

ENEE 417 - Fall 2002
Weeks #2-#3
Design #1: Curve Tracer

In this experiment an op-amp curve tracer will be designed, constructed, and tested.

1. Review use of a) the Tektronix 577-177-D1 commercial curve tracer and b) curve tracing in PSpice (or Spice).
2. Design an op-amp curve tracer following the circuit shown below and discussed in class. Test this on resistors and diodes and compare with the results from the commercial curve tracer. Using the commercial curve tracer as a signal generator for your op-amp curve tracer, obtain transistor curves and obtain an hard copy for future design use.
3. Learn LabView and use it to computer control the oscilloscope and record a file on disk of the curves.
4. Write a one to two page report summarizing your results.
5. (as soon as possible) make a parts list from your final choice of circuit and paper and give this to the laboratory technicians; verify that they will be able to obtain the parts needed.

