

ECE 2630 – Introductory Circuit Analysis

Lab 1: Introduction to Lab Equipment and Making Measurements

Lab Procedures

1. This lab has four major tasks. The steps you need to use to complete them are listed below.

Resistor Measurements

2. Select three values of resistors from your parts kit. **Make sure that smallest and largest values vary by at least a factor of 10^3 .** Write down the nominal values in the appropriate places in Table 1 of the Lab Worksheet. The color codes for resistors appear at the end of these instructions*.
3. Using the multimeter, measure the value of each resistor in your parts kit. Enter the results of the measurements in Table 1.

DC Power Supply Measurements

4. Using the 6-V supply, measure the power supply voltage with the multimeter and compare this to the meter reading on the power supply. Measure at least 5 different values. Place the results in the appropriate place in Table 2 of the Lab Worksheet.
5. Repeat Step 4 with +25 V and -25 V supplies without using the tracking feature.
6. Repeat Step 4 using the tracking feature. To do this, must press and hold the TRACK button until the front panel indicates "Track".
7. Connect the multimeter to the +25 V supply, and set the output to exactly 10.0 V. With the multimeter connected to the -25 V supply, adjust the tracking control for exactly -10.0V. Now, readjust the amplitude so that the +25 V supply reads +5.00V. What is the reading on the -25 V supply? Write the answer in the appropriate place in Table 2 of the Lab Worksheet.
8. Set the outputs of the power supply to zero and measure the voltages with the multimeter. Write the answer in the appropriate place in Table 2 of the Lab Worksheet.

Generating waveforms using the Function Generator

9. Set up the following configurations on the function generator. All amplitudes are peak-to-peak. Unless otherwise specified, the dc offset is zero volts. Display the results on the oscilloscope (CH1): (a) 2 kHz sine wave, Amplitude = 5V; (b) 100 Hz triangle wave, Amplitude = 300 mV; (c) 100 kHz square wave, Amplitude = 8 V; and (d) A square wave with $V_{max} = -2$ V, $V_{min} = 2.0$ V, and a period of 17 μ s.
10. Once you are comfortable generating wavefunction using the function generator, call the TA over. The TA will ask each student at your workspace to create a particular waveform. **Do not move on to the next step until all students at the workspace have completed this demonstration.**

* You may want to bring this chart with you to future labs. ...

Introductory Circuit Analysis Lab

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