## ENGR 210/EEAP 240 <br> Lab2: Series \& Parallel Resistance

Due: September 2, 1998
In this lab you will perform a simulated laboratory using a HP 34401A Digital Multimeter and various resistors to confirm the various laws governing series and parallel resistance.

Answer the following questions:

1. What were the measured resistances of R1 and R2?
$\mathrm{R} 1=149.8$
$\mathrm{R} 2=1521.3$
2. Resistor R1 is nominally a 150 resistor. What is the color code for 150 ? Answer: browngreen-brown
3. Resistor R2 is nominally a 1500 resistor. What is the color code for 1500 Answer: brown-green-red
4. What is the measured value of R 1 and R 2 in series?

Answer: 1.6711 k
5. How does this compare to the calculated value?

Answer: they are identical. $149.8+1521.3=1671.1$
6. What is the measured resistance of $\mathrm{R} 1 \| \mathrm{R} 2$ ?

Answer: 136.4

