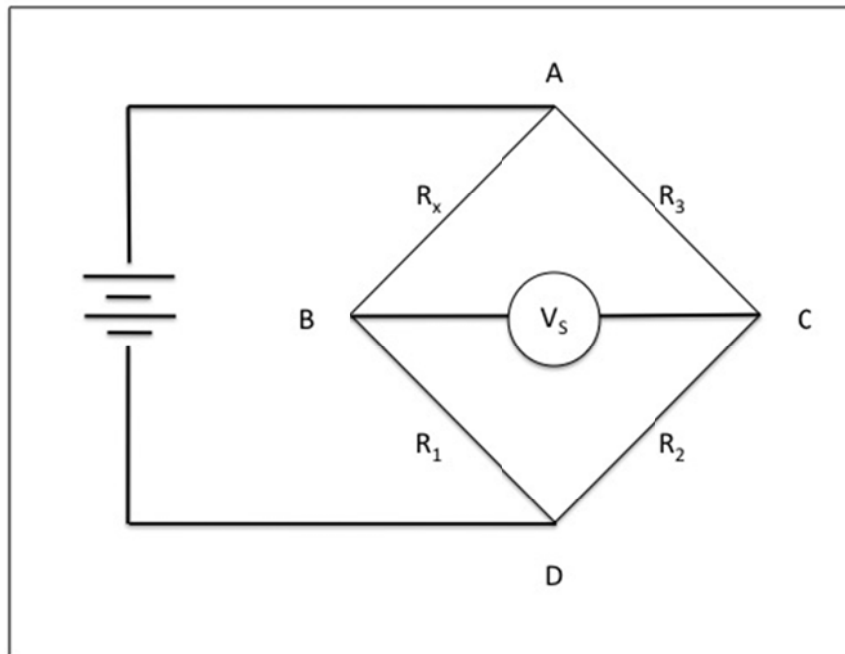


Wheatstone Bridge

Procedure

- 1) Measure the resistance of the three $2.2\text{k}\Omega$ resistors. Insert them into the bridge between points A and C, B and D, and C and D respectively according to the following diagram.



- 2) Connect a variable resistor where R_x is located on the diagram.
- 3) Connect the voltmeter across R_x .
- 4) Adjust the variable resistor until the meter reads 0 on its most sensitive setting and record the resistance as R_x .
- 5) Calculate the expected value of R_x using $R_x = R_3(R_1/R_2)$.
- 6) Calculate the percent difference.

$R_1 =$ _____ $R_2 =$ _____ $R_3 =$ _____ Measured $R_x =$ _____

Calculated $R_x =$ _____ Percent Difference = _____