

Lab 5 – MEMS Variable Resistor

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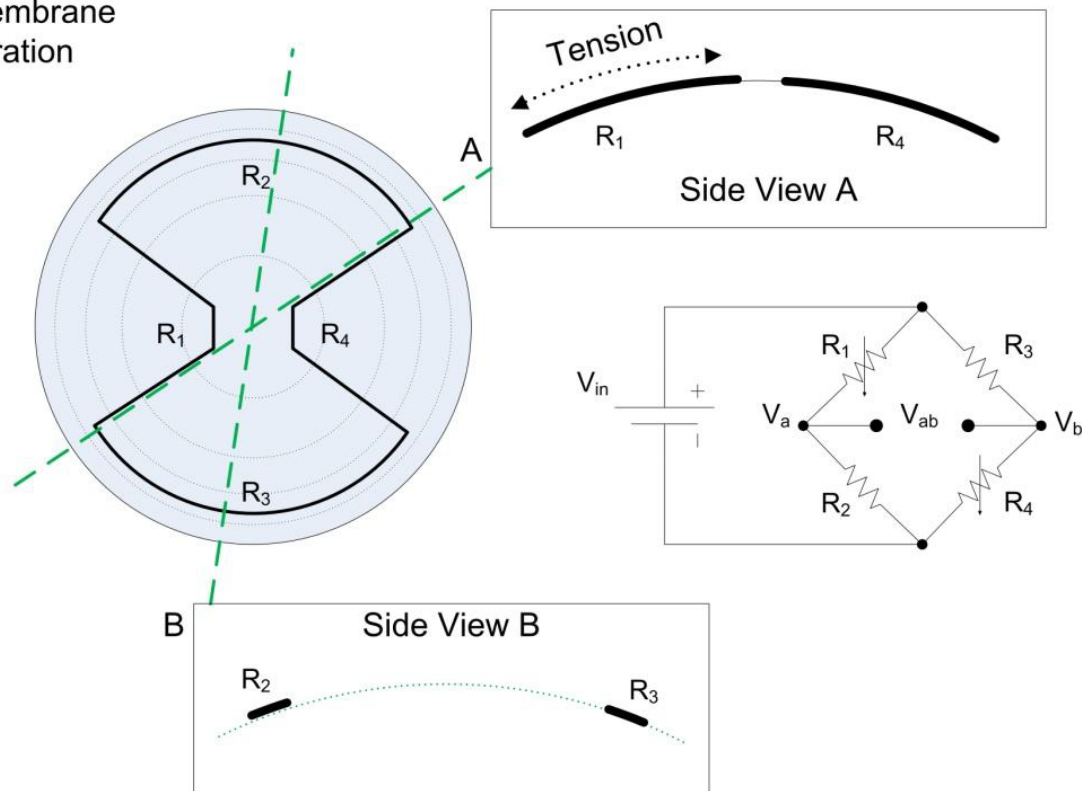
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The purpose of this lab is to:

Learn about variable resistors and a Wheatstone Bridge

Using the Pressure Sensor Model Kit build resistors R1 – R4 except modify the resistor pattern so that only resistor varies, R1. Make R4 a fixed value resistor so that it has the same “pattern” as R2 and R3.

Circular Membrane Configuration



Equipment needed:

- 1 – Digital Multimeter
- 1 – Elvis II
- 1 – Pressure Sensor Model Kit
- 10 – paperclips

	Measured
R1 =	
R2 =	
R3 =	
R4 =	

Observations: Built Pressure Sensor but It was never Tested

Used #2 Pencils for carbon



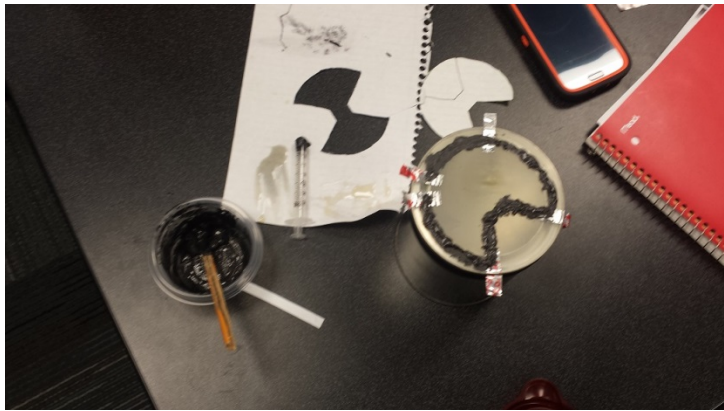
Crushed lead in crucible



Pre-assembly



Final design



Observations: Built Pressure Sensor but It was never Tested