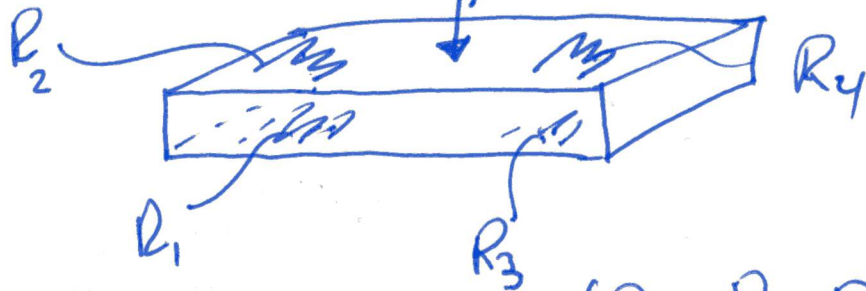
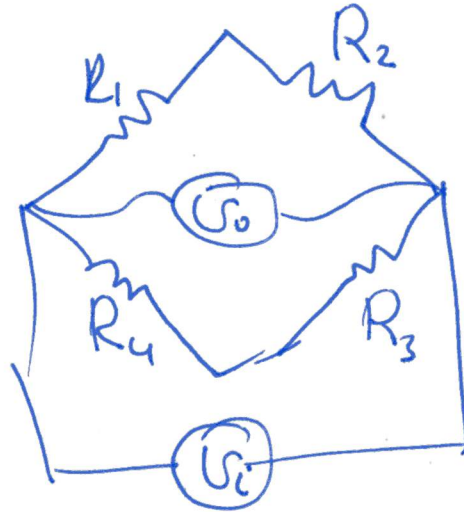


2. A Simplified load Cell (Bending type) made from a composite material having  $E = 10 \text{ MPa}$ , Can be modelled as:



it Strain gauges ( $R_1, R_2, R_3, R_4$ )

were attached as shown. and were connected to a Full Bridge as shown.



The Full Bridge is governed By the

eq: 
$$\Delta U_0 = U_0 \left( \frac{\Delta R_1}{R_1} - \frac{\Delta R_2}{R_2} + \frac{\Delta R_3}{R_3} - \frac{\Delta R_4}{R_4} \right)$$

and all Strain gauges had a gauge factor