



PROBLEMITTE

The Wheatstone bridge shown is a widely used circuit in many sensors and existrumentation cercuiets. It is basically a pair of voltage dividers where VAB is the difference voltage between the two dividers

Al
$$C_{1}$$
 $V_{AB} = V_{AD} - V_{BD}$
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$$V_{AB} = \frac{V_{CC}}{1 + (R_1/R_2)} - \frac{V_{CC}}{1 + (R_3/R_4)}$$

$$V_{AB} = 0 \quad \text{when } \frac{R_1}{R_2} - \frac{R_3}{R_4}$$

B) Suppress Vcc and the circuit becomes





