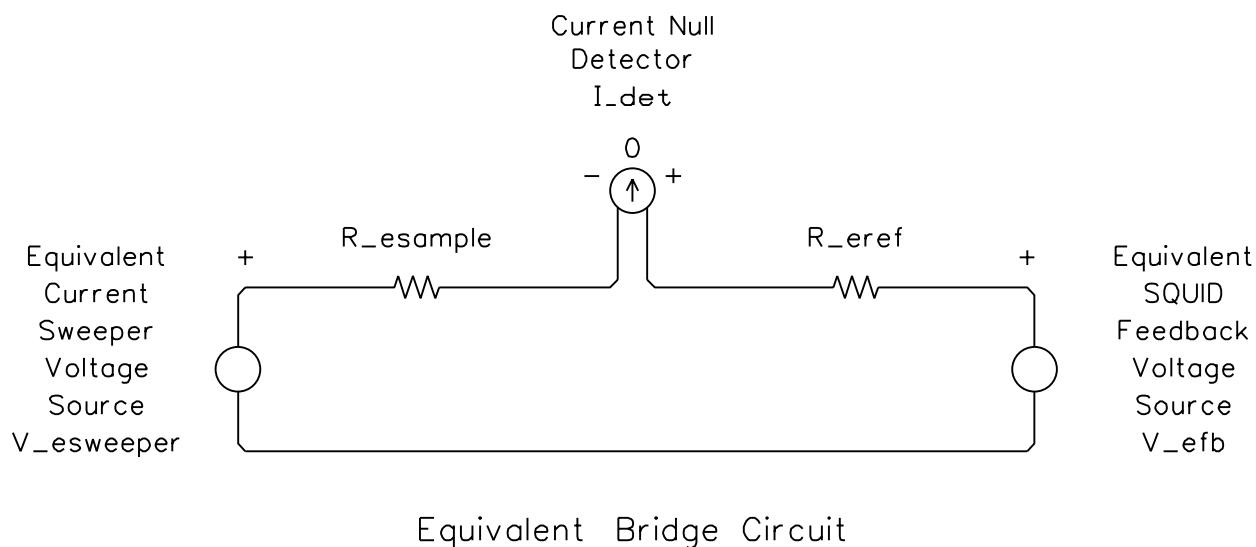
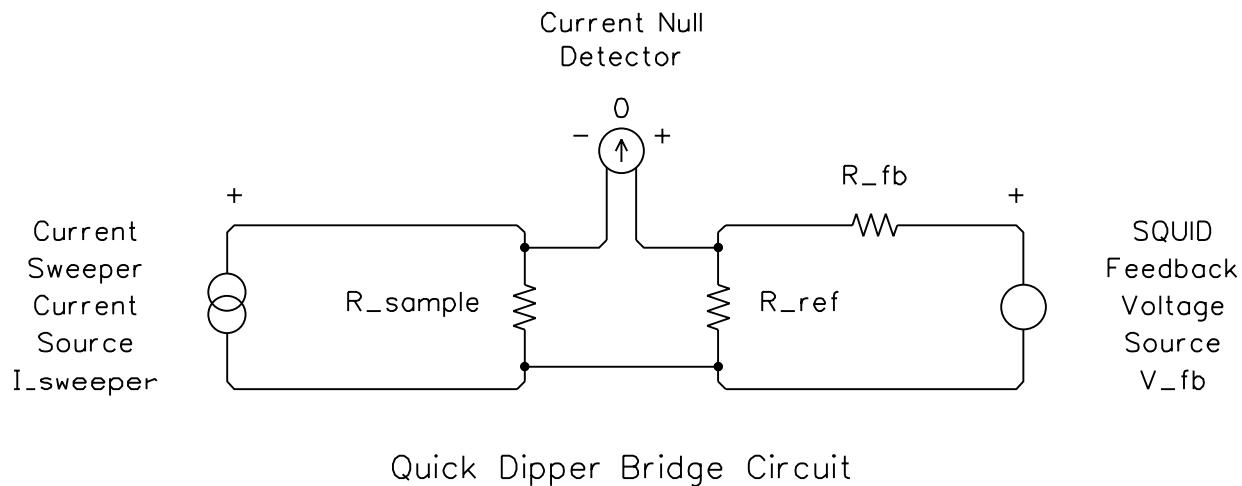


Quick Dipper Bridge & Equivalent Circuit



$$R_{esimalpe} = R_{sample}$$

$$R_{eref} = \frac{R_{fb} \times R_{ref}}{R_{fb} + R_{ref}}$$

$$V_{esweeper} = I_{sweeper} \times R_{sample}$$

$$V_{efb} = \frac{R_{ref}}{R_{fb} + R_{ref}} \times V_{fb}$$

$$I_{det} = \frac{V_{esweeper} - V_{efb}}{R_{esimalpe} + R_{eref}}$$