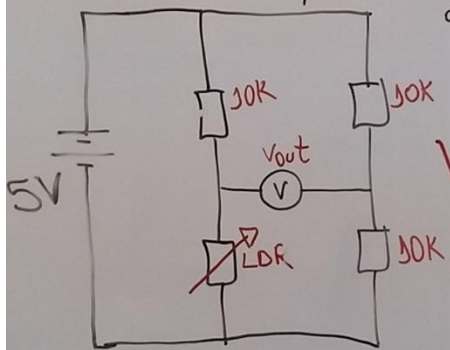


## Caracterização em Pontes

↳ Mais imune a variações de temp.



$$V_{out} = \frac{V_{ref}}{2} \frac{X}{(2+X)}$$

$$V_{out} = \frac{V_{ref}}{4} \cdot X \rightarrow P/|X| \ll 1$$

$$R_{LDR} = R_0 (1+X) \rightarrow (X = -0,5 @ 0,8)$$

$$R_{LDR} (5K @ 38K)$$

$$S = \frac{V_{ref}}{R_0} \cdot \frac{k}{(1+K+X)^2}$$

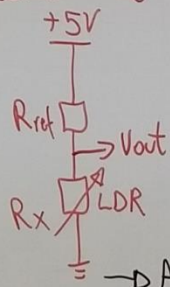
$$A = \frac{V_{out}}{R_x} = \frac{V_{ref}}{2 R_0} \frac{X}{1+X}$$

$$A = \frac{V_{ref}}{2} \cdot \frac{X}{(1+X)} \cdot \frac{1}{R_0(1+X)}$$

$$A = \frac{V_{ref} \cdot X}{2 R_0 (1+X)^2} \rightarrow P/|X| \ll 1$$

$$A = \frac{V_{ref}}{2 R_0} \cdot X$$

Lembrando



$$A = \frac{V_{ref}}{R_0} \cdot \frac{k}{1+K+X} \rightarrow K = \frac{R_{ref}}{R_0} \rightarrow P/K=1$$

$$A = \frac{V_{ref}}{R_0} \cdot \frac{1}{(1+X)} \quad P/|X| \ll 1 \rightarrow A = \frac{V_{ref}}{R_0}$$

→ Apresenta tb problemas c/ a temp.

$$S = \frac{V_{ref}}{R_0} \cdot \frac{k}{(1+K+X)^2}$$

$$V_{out} = \frac{R_0(1+X)}{R_0(1+X) + R_{ref}} \cdot V_{ref} = \frac{1+X}{1+X + \frac{R_{ref}}{R_0}} \cdot V_{ref} = \frac{1+X}{1+X+K} \cdot V_{ref}$$

$$P/|X| \ll 1$$

$$V_{out} = \frac{1}{2} V_{ref} \rightarrow \text{Problema}$$

Ele ã é sensível a pequenas variações de X