Oving 2 - Karauterisering aw sensore

Wheatstone by

Spennings le (int)

ADC OF ABC

FOAD:
$$V_0 = \frac{R_2}{R_1 + R_2}$$

R

FraB: $V_B = \frac{R_3}{R_3 + R_2}$

Frans:
$$V_B = \frac{R_3}{R_3 + R(t)}$$

a)
$$I_1 = I_2$$
, $I_3 = I_X$, $V_0 = V_B$

$$= S R(T) = R_3 \frac{R_2}{R_2}$$

$$\frac{E_{out} = E_o}{R_1 R_2} \frac{R_2 R(T) - R_1 R_3}{\left(R_3 + R(t)\right)}$$

$$F = R_1 = R_0$$

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$$R_1 = I_2$$

$$Silen I_1 = I_2$$

$$Silen I_2 = I_3 = I_4$$

$$OB act Spenninger over branch to corp$$

$$ABC er Con Source for
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$$=\frac{E_{O}\left[1-\frac{1}{1+\alpha z_{T}}\right]}{\frac{R_{O}(1HF)}{F}}$$

$$\frac{1}{1+x} \approx 1-x$$

$$=\frac{\pm c}{1+\mp}\left[1-\left(1-\frac{\infty T}{Rc-+Rc}\right)\right]$$

$$\frac{E_{c}r}{(1+F)(\frac{1}{F}+1)R_{c}}$$

 $\frac{1}{1} + 1 + 1 + F = \frac{1}{2} + \frac{1}{1} + F = \frac{1}{1} + \frac{1}{1} + F = \frac{1}{1} + \frac{1$

d) Stalle temperatursuninger (ST)

In de l'inne $\frac{1}{1+t} \approx 1-x$, men $\frac{1}{1+t} = 1-x-x^2-x^3-x^4-\cdots$ $\frac{1}{1+t} = \frac{1}{1+x}$ $\frac{1}{1+t} = \frac{1}{1+x}$

 $E_{cut} = A_1 \left(\frac{\alpha \Delta T}{R_c} \right) + A_2 \left(\frac{\alpha \Delta T}{R_c} \right)^2 + A_3 \left(\frac{\alpha \Delta T}{R_c} \right)^3 + \dots$