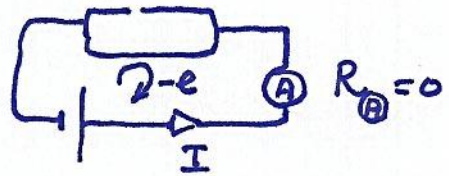


Samenvatting h-05 Spanning en stroom

* Stroomsterkte

$$I = \frac{\Delta Q}{\Delta t}$$

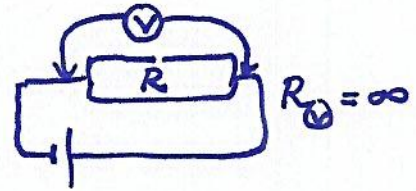
C/s of A



* Weerstand

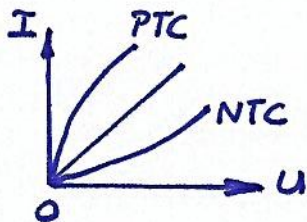
$$U = I \cdot R$$

Ohm



geleidbaarheid

$$G = 1/R$$



$$R = \rho \frac{l}{A}$$

metaal neemt toe met T

* Serie $R_v = R_1 + R_2 + \dots$

I overal gelijk
U is verdeeld

parallel $\frac{1}{R_v} = \frac{1}{R_1} + \frac{1}{R_2} + \dots$

U overal gelijk
I is verdeeld

of $G_v = G_1 + G_2 + \dots$

* Vermogen

$$P = \frac{\Delta E}{\Delta t} = U \cdot I = I^2 R = \frac{U^2}{R}$$

W of J/s

$$1 \text{ kWh} = 1000 \cdot 3600 \text{ J}$$