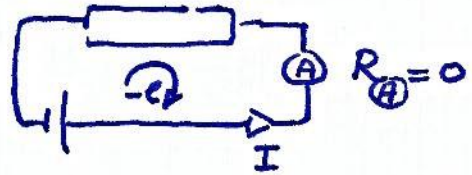


* Stroomsterkte

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

C/s of A



* weerstand

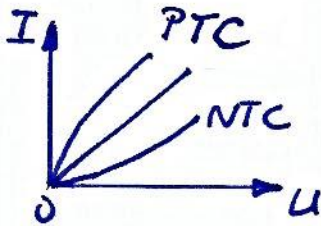
$$U = I \cdot R$$

$$V = A \cdot \Omega$$



geleidbaarheid

$$G = \frac{1}{R}$$



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

ρ metaal neemt toe met T $\sigma = \frac{1}{\rho}$

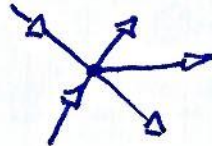
* Serie $R_v = R_1 + R_2 + \dots$

I overal gelijk
U is verdeeld

* parallel $\frac{1}{R_v} = \frac{1}{R_1} + \frac{1}{R_2} + \dots$
of $G_v = G_1 + G_2 + \dots$

U overal gelijk
I is verdeeld

Kirchoff 1 $\sum \vec{I} = 0$

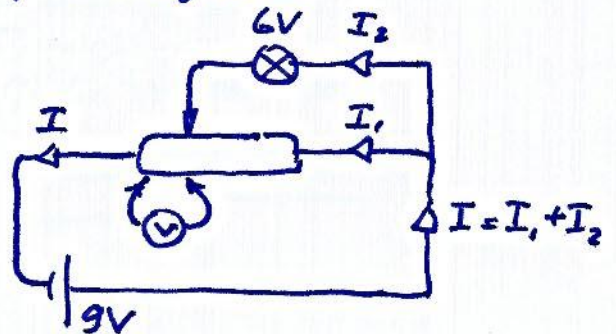


Kirchoff 2

Bij een zandgang wordt de spanning verdeeld.

v.b spanningsdeler

⊙ wijst 9-6=3V aan



* vermogen

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

W of J/s

1 kWh = 1000 · 3600 J