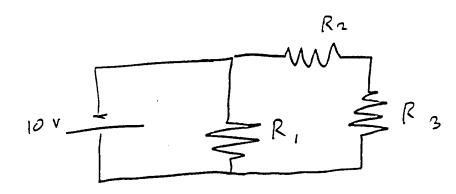
Current and Resistors VED



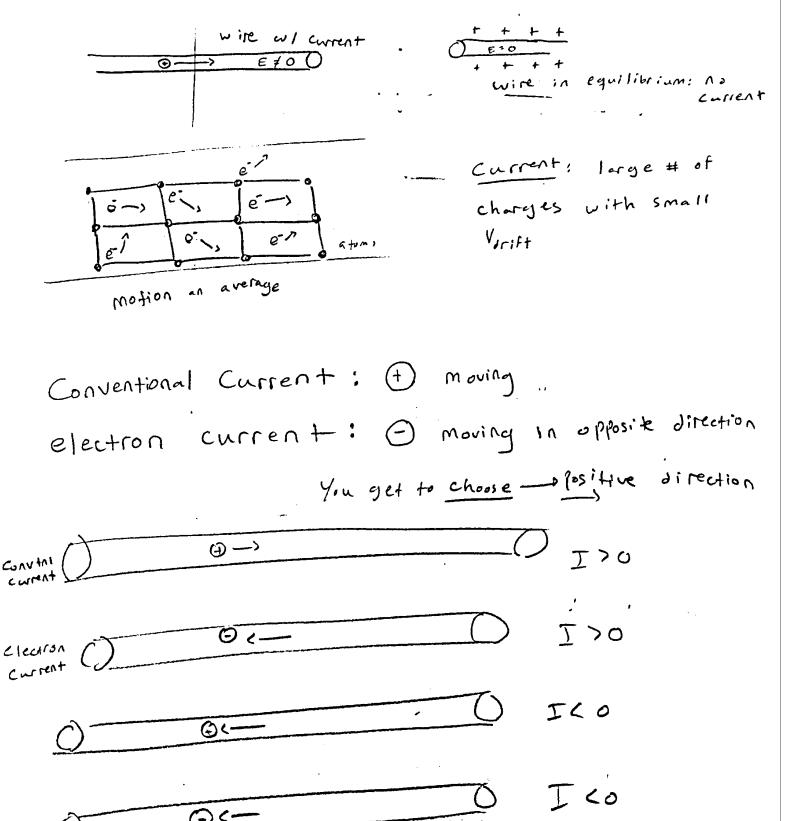
$$\begin{bmatrix} c_1 \\ \vdots \\ c_n \end{bmatrix}$$

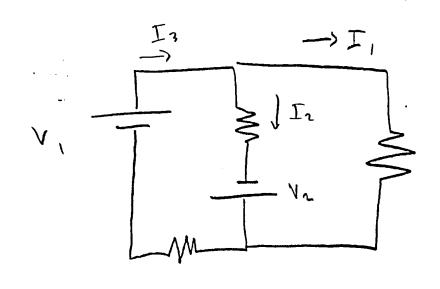
$$V_1 = 10 \text{ V}$$
 $V_2 + V_3 = 10 \text{ V}$



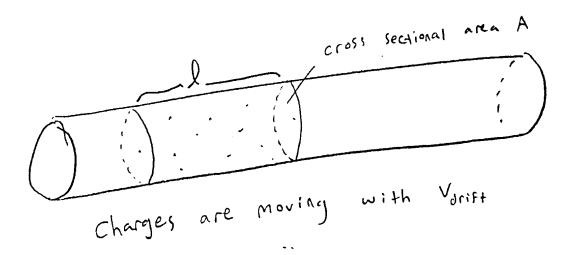
Current (I)

$$I = \frac{\Delta Q}{\Delta t} = \frac{\text{Charges}}{t \cdot \text{me}}$$





girection

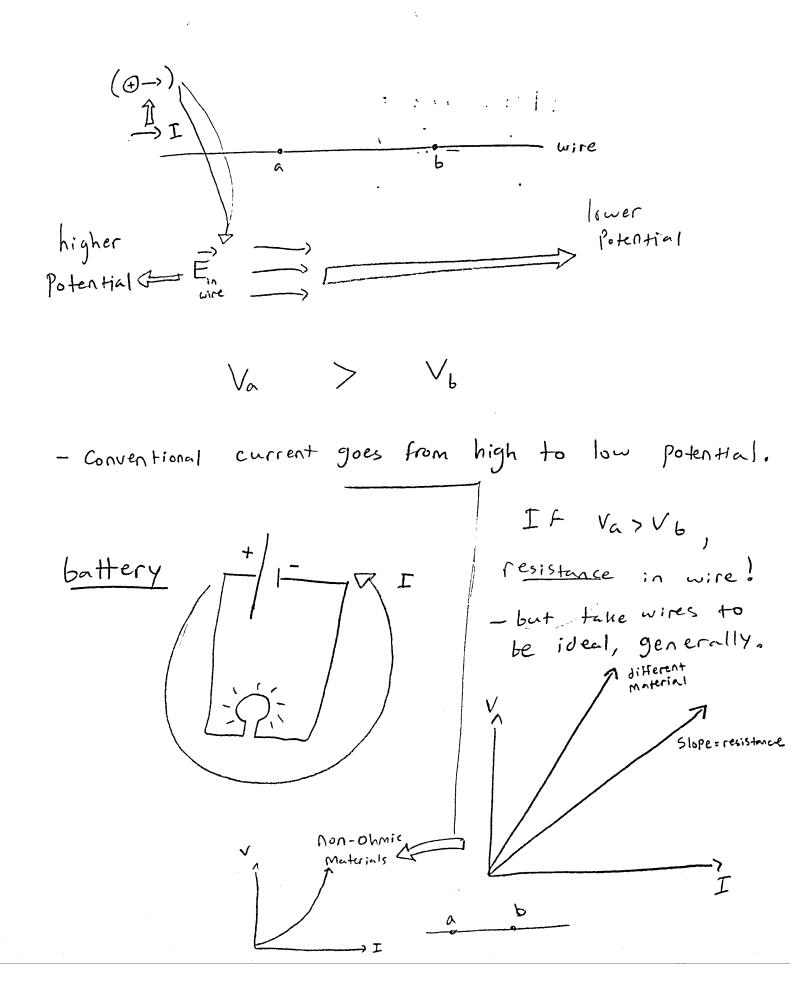


in time Δt :

Current
$$I = \int_{\text{area}} \vec{J} \cdot \hat{n} dA$$

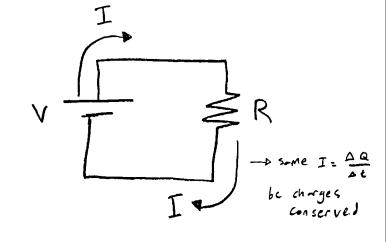
accelerator: beam 5 MeV proton beam

beam spot: circle of radius 1.5 mm



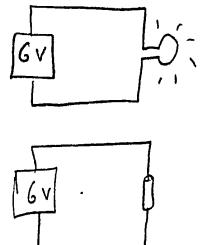
Any material where
$$R = \frac{V}{I}$$
 is an Ohmic Material!

" safety cor, not a school bus"





$$I = \frac{6v}{10v} = \frac{6}{10} = \frac{3}{5}$$



$$I = \frac{6v}{20A} = \frac{6}{70} = \frac{3}{10}$$

