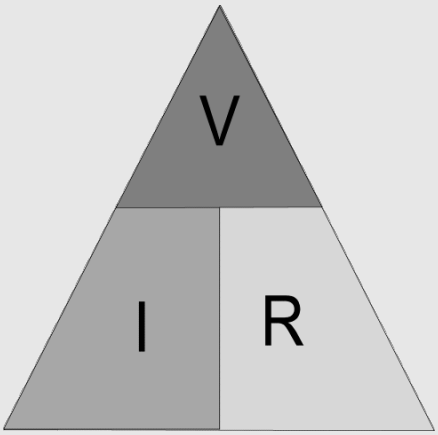
Current

Current is the amount of net charge passing through a surface per a second.

I = q/t

I = Current (Amperes)
q = Charge (Coulombs)
t = Time (seconds)

Ohm's Law



Resistivity

Resistivity is a material property that quantifies how much the material restricts the flow of current.
Ohm- meter

R = p (l/a)

R = resistivity
p = conductiity (ohms/m)
l = length
a = area of crossection (m^2)

Replay

R = p (l/a)

What happens if the area is larger?

> the smaller the resistence

What happens if you increase the length?

> the larger the resistence

Power

Work per unit time.

P = IV = I2R = (v)2/R

Original formula is P = IV. With this formula, apply Ohm's law and the rest will follow.

Power = energy * time

Power (Watts)
Energy (kWhr,
Time (seconds)

energy = (power) (time)

Energy (kWhr, Joules)
Power (Watts)
Time (seconds)

By **ellie_fitzy**
cheatography.com/ellie-fitzy/

Not published yet.
Last updated 30th April, 2015.

Sponsored by **Readability-Score.com**
Measure your website readability!
https://readability-score.com