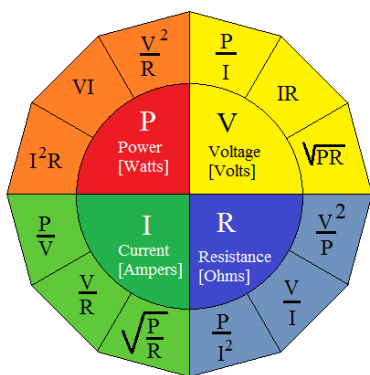


Electronics Equations

Tyler Hilbert

Electronic Formula Wheel



Equations from “Fundamentals of Electric Circuits”

Current: $I = dQ/dt$

(Note: This can also be written like this: $I = \Delta Q/\Delta t$)

Charge: $Q = \int_{t_0}^t i \, dt$

Voltage: $V = dw/dQ$

Power: $p = dw/dt$

Kirchoff's Law: $\sum_{m=1}^M v_m = 0$

Resistance in series: $\sum_{n=1}^N R_n$

Resistance in parallel: $R = 1/\sum_{n=1}^N 1/R_n$