

Elektrizitätslehre

$$I = \frac{dQ}{dt}$$

$$Q = \int_V \rho_{el} dV$$

$$\frac{dE_{pot}}{dt} = \frac{d}{dt}(UQ) = U \frac{dQ}{dt} = UI = P$$

$$\rho_{el} = \text{Ladungsdichte} [C/m^3]$$