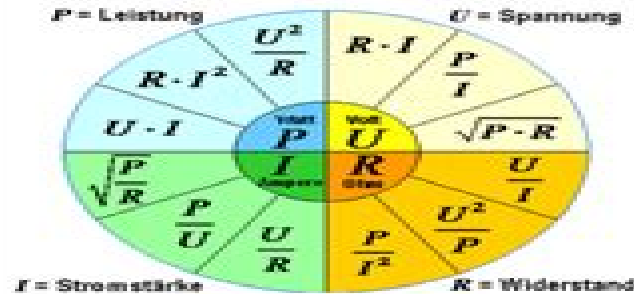


Grundlagen



$$s = \frac{at^2}{2}$$

$$v = \frac{s}{t} = \sqrt{2as}$$

$$F = ma$$

$$\text{Stromdichte: } S = \frac{I}{A} = \eta \cdot v = \frac{Q}{I^2} \cdot v \quad S_{\max} \approx 10 \frac{A}{\text{mm}^2}$$

Zählfeilsystem

- U, I gleiche Richtung $\Rightarrow$ Verbraucher
- U, I entgegengesetzt $\Rightarrow$ Erzeuger

Wirkungsgrad:

$$\eta_{\text{Ges}} = \frac{\text{Nutzen}}{\text{Aufwand}} = \frac{P_{\text{Nutz}}}{P_{\text{Ges}}} = \frac{P_{\text{Nutz}}}{P_{\text{Nutz}} + P_{\text{Verl}}} \quad \eta_{\text{Ges}} = \frac{P_{\text{Nutz}}}{P_{\text{Ges}}}$$

$$P_{\text{Verl}} = U \cdot I \quad P_{\text{Verl}} = I^2 \cdot R$$

Konstanten:

$$\text{Elementarladung} \quad e^- = 1,602 \text{ As}$$

$$\text{Magn. Feldkonstante} \quad \mu_0 = 4\pi \cdot 10^{-7} \frac{\text{Vs}}{\text{Am}} \quad \mu = \mu_0 \cdot \mu_r$$

$$\text{Elektr. Feldkonstante} \quad \epsilon_0 = 8,85 \cdot 10^{-12} \frac{\text{As}}{\text{Vm}} \quad \epsilon = \epsilon_0 \cdot \epsilon_r$$

$$\text{Spannung: } U = \frac{dW}{dq}$$

$$\text{Elektrische Feldstärke: } E = \frac{F}{q}$$

$$\text{Magnetische Feldstärke: } B = \frac{F}{q \cdot v} = \mu \cdot H = \mu \cdot \frac{N \cdot I}{l}$$

$$\text{Elektr. Arbeit: } W = E \cdot q \cdot s = Q \cdot U$$

$$\text{Elektr. Leistung: } P = \frac{dW}{dt}$$

$$\text{Kapazität: } C = \frac{Q}{U}$$

$$\text{Induktivität: } L = \mu_0 \cdot N^2 \frac{A_{\text{Mitt}}}{l_{\text{Mitt}}} = \mu \cdot N^2 \frac{A_{\text{Mitt}}}{l_{\text{Mitt}}}$$

$$\text{Spezifische Leitfähigkeit: } \kappa = \frac{S}{l} = \frac{1}{\rho}$$

$$[U] = 1V = 1 \frac{\text{kgm}^2}{\text{As}^2}$$

$$[E] = 1 \frac{V}{m} = 1 \frac{\text{kgm}}{\text{As}^2}$$

$$[B] = 1T = 1 \frac{\text{Vs}}{\text{m}^2}$$

$$[W] = 1J = 1eV = \frac{\text{kgm}^2}{s^2} = 1Nm = 1VAs$$

$$[P] = 1W = 1 \frac{\text{kgm}^2}{s^3}$$

$$[C] = 1F = 1 \frac{\text{As}}{V}$$

$$[L] = 1H = 1Vs = 1 \frac{Vs}{A}$$

$$[\kappa] = \frac{1}{\Omega m}$$

Widerstände

Temperaturabhängige Widerstände:

$$R_{\theta} = R_{20}(1 + \alpha(\Delta\theta)) \quad \Delta\theta = (\theta - 20^\circ\text{C})$$

$$\frac{R_{\theta_1}}{R_{\theta_2}} = \frac{1 + \alpha(\theta_1 - 20^\circ\text{C})}{1 + \alpha(\theta_2 - 20^\circ\text{C})} = \frac{235^\circ\text{C} + \theta_1}{235^\circ\text{C} + \theta_2} \quad \alpha \approx 0,0039 \frac{1}{K}$$

$\Delta\theta$ zulässig $\sim 80K$ im Betrieb

$$\text{Linear} \quad R = \frac{U}{I} = \frac{l \cdot E}{S \cdot A} = \rho_{20} \frac{l}{A}$$

$$\rho_{Fe} = 0,10 \frac{\Omega \cdot \text{mm}^2}{m}$$

$$\rho_{Cu} = 0,0178 \frac{\Omega \cdot \text{mm}^2}{m}$$

$$\rho_{Al} = 0,0278 \frac{\Omega \cdot \text{mm}^2}{m}$$

Differentiell

$$r = \frac{\Delta U}{\Delta I}$$



Stromrichtige Widerstandsmessung

für $R > \sqrt{R_i \cdot R_{e0}}$

$R_{e0} \hat{=}$ Innenwiderstand VM

$\sim 500 \frac{\Omega}{V}$



$$R^* = \frac{U}{I_{\text{A}}} = R + R_i$$

$$\frac{R^*}{R} = 1 + \frac{R_i}{R}$$

Spannungsrichtige Widerstandsmessung

für $R < \sqrt{R_i \cdot R_{e0}}$

$R_{e0} \hat{=}$ Innenwiderstand AM

$\sim 400 \frac{\text{m}\Omega}{V}$



$$R^* = \frac{U_A}{I} = \frac{U_A}{\frac{U}{R_i + R_{e0}}} = \frac{1}{1 + \frac{R_{e0}}{R_i}}$$

$$R = R^* - R_i$$

$$R = \frac{R_{e0} \cdot R^*}{R_{e0} - R^*} = \frac{R^*}{1 - \frac{R^*}{R_{e0}}} \rightarrow$$

$$\frac{R^*}{R} = \frac{1}{1 + \frac{R_{e0}}{R}} = \frac{1}{1 + \frac{R_{e0}}{R}} = 1 - \frac{\frac{R_{e0}}{R}}{1 + \frac{R_{e0}}{R}} = \frac{1 + \frac{R_{e0}}{R} - \frac{R_{e0}}{R}}{1 + \frac{R_{e0}}{R}}$$

Fehlerbehebung

Grundlagen Elektrotechnik

Wilfried Weißgerber



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