OHMOV ZAKON

$$U = I \cdot R \quad [V = \Omega A]$$

UPORNOST

$$R = \frac{l}{S} \cdot \rho_R \quad [\Omega]$$

ρ.....specifična upornost

$$\kappa = \frac{1}{\rho_R}$$

κ.....specifična prevodnost

MOČ

$$P = U I = R I^2 = \frac{U^2}{R} \quad [W]$$

ZAPOREDNA VEZAVA

$$U_g = U_1 + U_2 + U_3 = R_N \cdot I$$

$$R_N = R_1 + R_2 + R_3$$

$$U_1 = R_1 \cdot I$$

$$U_2 = R_2 \cdot I$$

$$U_3 = R_3 \cdot I$$

VZPOREDNA VEZAVA

$$U_g = U_1 = U_2 = U_3$$

$$I = I_1 + I_2 + I_3$$

$$I_1 = \frac{U}{R_1}; I_2 = \frac{U}{R_2}; I_3 = \frac{U}{R_3}$$

$$\frac{1}{R_N} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$