

ПОСТОЯННЫЙ ТОК

$$I = \frac{q}{\Delta t}$$

$$I = \frac{U}{R}$$

$$j = \frac{I}{S}$$

$$j = \frac{E}{\rho}$$

$$I = \frac{\mathcal{E}}{R+r}$$

$$I_{\text{кз}} = \frac{\mathcal{E}}{r}$$

$$R = \rho \frac{l}{S}$$

$$\rho = \rho_1(1 + \alpha \Delta t)$$

$$\mathcal{E} = A_{\text{сх}}$$

$$U = \mathcal{E}^q - Ir$$

$$I = \frac{\mathcal{E}_1 + \mathcal{E}_2}{R + r_1 + r_2}$$

$$I = \frac{\mathcal{E}}{R + \frac{r}{n}}$$

$$Q = I^2 R t$$

$$P = UI$$

$$P_{\mathcal{E}} = \mathcal{E}I$$

Усл. макс. мощности $R = r$

Последовательное

$$R_{\text{экв}} = R_1 + R_2$$

Параллельное

$$\frac{1}{R_{\text{экв}}} = \frac{1}{R_1} + \frac{1}{R_2}$$