

همایش های جمع بندی تشریحی



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$$q = \pm n e$$

$$F = k \frac{|q_1| |q_2|}{r^2}$$

$$\frac{1}{4\pi\epsilon_0} \vec{E} = \frac{\vec{r}}{r^3} \Delta U$$

$$E = k \frac{|q|}{r^2}$$

$$\Delta V = \frac{\Delta U}{q}$$

$$C = \frac{Q}{V}$$

$$C = \frac{Q}{V} = \frac{Q}{\frac{U}{C}} = \frac{Q^2}{U}$$

$$U = \frac{1}{2} C V^2$$

$$F = I L B \sin \theta$$

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$$B_0 = \frac{\mu_0 N I}{2r}$$

$$B = \frac{\mu_0 N I}{l}$$

$$\phi = B A \cos \theta$$

$$\mathcal{E} = -N \frac{\Delta \phi}{\Delta t}$$

$$L = \frac{\mu_0 N^2 A}{l}$$

$$U = \frac{1}{2} L I^2$$

$$I = \frac{\mathcal{E}}{R_{\text{کل}} + r_{\text{کل}}}$$

$$R_{\text{کل}} = R_1 + R_2 + \dots$$

$$\frac{1}{R} = \frac{1}{R_1} + \frac{1}{R_2} + \dots$$

$$P = V I \Rightarrow \begin{cases} \frac{V^2}{R} \\ R I^2 \end{cases}$$

$$\begin{aligned} \phi &= \phi_{\text{max}} \cos\left(\frac{2\pi}{T} t\right) \\ i &= i_{\text{max}} \sin\left(\frac{2\pi}{T} t\right) \\ v &= v_{\text{max}} \cos\left(\frac{2\pi}{T} t\right) \end{aligned}$$

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

$$\mathcal{E} = \frac{\Delta W}{\Delta q}$$

$$R = \frac{V}{I}, R = \rho \frac{l}{A}$$

$$R_2 = R_1 (1 + \alpha \Delta \theta)$$

$$V = \mathcal{E} - r I$$

$$V = \mathcal{E} + r I$$