

مذكرة

القوانين ...

$$\Phi = \vec{A} \cdot \vec{B} \quad [13]$$

$$\rho E = -q E d \quad [1]$$

$$\Phi = A (B \cdot \cos \theta) \quad [14]$$

$$\Delta V = \frac{\Delta PE}{q} \quad [2]$$

$$B = \frac{\mu I}{2\pi d} \quad [15]$$

$$\Delta V = - E d \quad [3]$$

$$B = \frac{F}{qv} \quad [16]$$

$$\Delta V = K_c \frac{q}{r} \quad [4]$$

$$F = B I \ell \quad [17]$$

$$C = \frac{Q}{\Delta V} \quad [5]$$

$$\mathcal{E} = -N \frac{\Delta \Phi}{\Delta t} \quad [18]$$

$$C = \epsilon_0 \frac{A}{d} \quad [6]$$

$$\mathcal{E} = -L \frac{\Delta I}{\Delta t} \quad [19]$$

$$PE = \frac{1}{2} Q \Delta V \quad [7]$$

$$L = \frac{\mu N^2 A}{\ell} \quad [20]$$

$$I = \frac{\Delta Q}{\Delta t} \quad [8]$$

$$\mathcal{E}_m = NAB\omega \quad [21]$$

$$R = \frac{\Delta V}{I} \quad [9]$$

$$\tan \theta = \frac{V_{mL} - V_{mC}}{V_{mR}} \quad [22]$$

$$P = I \Delta V \quad [10]$$

$$f = \frac{1}{2\pi \sqrt{LC}} \quad [23]$$

$$R_{\text{مكافئة}} = R_1 + R_2 + R_3 \dots \quad [11]$$

$$V_2 = \frac{N_2}{N_1} V_1 \quad [24]$$

$$\frac{1}{R_{\text{مكافئة}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} \dots \quad [12]$$