

# Basic ELECTRIC FORMULAS

## ELECTRIC FORCE AND FIELD

$$F_e = k \frac{|q_1| |q_2|}{R^2}$$

$$\vec{F}_e = q \vec{E}$$

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

$$\Phi_e = EA \cos \theta$$

$$\epsilon_0 = \frac{1}{4\pi k}$$

## ELECTRICAL POTENTIAL

$$V = kQ$$

$$PE_e = k \frac{q_1 q_2}{R}$$

$$W_e = q \Delta V$$

$$E = \frac{\Delta V}{d}$$

## CAPACITANCE

$$C = \frac{Q}{\Delta V}, Q = -C \Delta V, \Delta V = \frac{Q}{C}$$

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

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

$$\frac{1}{C_s} = \frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3} \dots$$

$$C_p = C_1 + C_2 + C_3 \dots$$

$$C = k \epsilon_0 A/d$$

## FARADAY'S LAW

$$\Phi_m = BA \cos \theta$$

$$\mathcal{E}_{ind} = -N \frac{\Delta \Phi_m}{\Delta t}$$

$$\mathcal{E}_{ind} = -BLv$$

## TRANSFORMER

$$\frac{\Delta V_{in}}{\Delta V_{out}} = \frac{N_p}{N_s}$$

## INDUCTANCE:

$$\mathcal{E} = -L \frac{\Delta I}{\Delta t}, L = \frac{N \Phi_m}{I}$$

$$U = \frac{1}{2} LI^2$$

## RESISTANCE AND CURRENT

$$\Delta V = IR, I = \frac{\Delta V}{R}$$

$$R = \frac{\Delta V}{I}, P = I \Delta V,$$

$$P = I^2 R, P = \frac{\Delta V^2}{R}$$

$$R_s = R_1 + R_2 + R_3 \dots$$

$$R_p = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} \dots$$

$$\sum_{loop} \Delta V_i = 0, J = \frac{I}{A}$$

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

$$= I(R + r)$$

$$J = \sigma E, R = \frac{\rho L}{A}$$

$$\omega_0 = \frac{1}{\sqrt{LC}} = 2\pi f_0$$

## MAGNETIC FIELD & FORCE

$$F_m = |q| v B \sin \theta$$

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

$$\tau_{net} = I A B \sin \theta$$

$$B = \frac{\mu_0 I}{2\pi r}, B = \frac{\mu_0 I}{2a}$$

$$B = \frac{\mu_0 N I}{L} = \mu_0 n I$$

## AC CIRCUITS

$$Z = \sqrt{R^2 + (X_L - X_C)^2} \quad \Delta V_{rms} = \frac{\Delta V_m}{\sqrt{2}}$$

$$\phi = \tan^{-1} \left( \frac{X_L - X_C}{R} \right) \quad I_{rms} = \frac{I_m}{\sqrt{2}}$$

# Basic Electrical Formulas

**L Darling-Hammond**



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