$$V = IR$$

$$p = vi$$

$$W_{C} = \frac{1}{2}CV^{2}$$

$$R_{eq,srie} = \sum R_{k}$$

$$T = \frac{R_{eq,l}}{\sum R_{lot}} = \left(\sum \frac{1}{R_{k}}\right)^{-1}$$

$$V_{i} = \frac{R_{i}}{\sum R}V_{lot}$$

$$V_{m} = \frac{\sum A}{\sum h}$$

$$V = \frac{V_{max}}{\sqrt{2}}$$

$$v(t) = \sqrt{2}V \cdot \cos(wt + \varphi_{v})$$

$$v(t) = Re(\sqrt{2}Ve^{j\varphi_{e}}e^{iwt}) = Re(\sqrt{2}Ve^{iwt})$$

$$V = Ve^{j\varphi_{v}} = RI$$

$$V_{L} = jwLI = jX_{L}I$$

$$V_{C} = -\frac{jI}{wC} = -jX_{C}I$$

$$w = 2\pi f$$

$$V_{I} = ivLI = \frac{1}{2}(L_{L} - X_{C})$$

$$V_{I} = re^{j\varphi_{l}} = \frac{v_{l}}{v_{l}}$$

$$V_{I} = re^{j\varphi_{l}} = \frac{v_{l}}{$$

$$C_{\triangle rif} = \frac{C_{Yrif}}{3}$$

$$x(t) = (x(0^{+}) - x(\infty)) \cdot e^{-\frac{t}{\tau}} + x(\infty)$$

$$\tau = R_{eq}C$$

$$\tau = \frac{L}{R_{eq}}$$

$$\frac{B}{\mu} \cdot l = NI$$

$$\varphi = BA$$

$$U = \theta \cdot \varphi$$

$$\theta = \frac{1}{\mu} \frac{l}{A}$$

$$W = \frac{1}{2}Li^{2}$$

$$L = \frac{N\varphi}{i} = \frac{N^{2}}{\theta}$$

$$L_{m} = \frac{N_{2}\varphi_{2}}{I_{1}} = \frac{N_{1}\varphi_{1}}{I_{2}} = \frac{N_{1}N_{2}}{2\theta_{eq2}}$$

$$W = \frac{1}{2}L_{11}i_{1} + L_{m}i_{1}i_{2} + \frac{1}{2}L_{22}i_{2}^{2}$$

$$F = \frac{\varphi^{2}}{2\mu_{o}A_{Fe}} = -\frac{B^{2}}{2\mu_{o}}A_{Fe}$$

$$\frac{v_{1}}{v_{2}} = \frac{N_{1}}{N_{2}} = \frac{i_{2}}{i_{1}} = k$$

$$A_{n} = V_{1n}I_{1n} = V_{2n}I_{2n}$$

$$R_{1} = R_{\rightarrow 2}K^{2}$$

$$e = Blu$$

$$F = Bli$$

$$e_{tot} = Blv_{2}RN$$

$$I_{tot} = Bli_{2}RN$$

$$I_{0\%} = \frac{I_{10}}{I_{1n}} \cdot 100\%$$

$$R_{Fe} = \frac{V_{1n}^{2}}{Q_{0}}$$

$$V_{cc\%} = \frac{V_{cc2}}{V_{2n}} \cdot 100\%$$

$$R_{cc} = \frac{P_{cc}}{I_{2n}^{2}}$$

$$X_{cc} = \frac{Q_{cc}}{I_{2n}^{2}}$$

$$\cos(\varphi_{0}) = \frac{P_{0}}{V_{1n}I_{10}}$$

$$\cos(\varphi_{cc}) = \frac{P_{cc}}{V_{cc2}I_{2n}}$$

$$\mu_{0} = 1.2566 \times 10^{-6}$$