Formulário

$$L = \frac{N\phi}{i} \qquad \phi = \int \vec{B}.d\vec{A} \qquad V_L = -L\frac{di}{dt} \qquad \varepsilon = -\frac{d\phi_B}{dt} \qquad q(t) = \varepsilon C\left(1 - e^{-t/RC}\right)$$

$$i = \frac{\varepsilon}{R}(1 - e^{-\frac{Rt}{L}}) \qquad i = i_0 e^{-\frac{Rt}{L}} \qquad U_L = \frac{1}{2}LI^2 \qquad U_C = \frac{1}{2C}q^2 \qquad C = \frac{q}{V}$$

$$X_L = \omega L \qquad X_C = \frac{1}{\omega C} \qquad \omega_r = \frac{1}{\sqrt{LC}} \qquad Z = \sqrt{R^2 + (X_L - X_C)^2} \qquad tg\phi = \frac{X_L - X_C}{R}$$

$$\varepsilon = \varepsilon_m sen(\omega t) \qquad i = i_{\max} sen(\omega t - \phi) \qquad q(t) = q_{\max}\cos(\omega t - \phi)$$

$$V_{R\max} = RI_{\max} \qquad V_{rms} = \frac{V_{\max}}{\sqrt{2}} \qquad I_{rms} = \frac{\varepsilon_{rms}}{Z} \qquad V_{L\max} = X_L I_{\max} \qquad V_{C\max} = X_C I_{\max}$$

$$P_{med} = I^2{}_{rms}.R = \varepsilon_{rms}.I_{rms}.\cos\phi$$