Fórmulas útiles

$v_L = L\frac{di_L}{dt}$ $\quad i_C = C\frac{dv_C}{dt}$ $\quad \omega_0 = \frac{1}{\sqrt{LC}}$ $\quad$ RLC Serie $\alpha = \frac{R}{2L}$ $\quad$ RLC Paralelo $\alpha = \frac{1}{2RC}$

Ecuación característica $s^2 + 2\alpha s + \omega_0^2 = 0$ $\quad \omega_r = \sqrt{\omega_0^2 - \alpha^2}$ $\quad f(t) = f_F + A_1 e^{s_1 t} + A_2 e^{s_2 t}$

$f(t) = f_F + (A_1 + A_2 t)e^{-s_1 t}$ $\quad f(t) = f_F + (A_1 \cos \omega_r t + A_2 \sin \omega_r t)e^{-\alpha t}$