$$\begin{split} \sum u &= 0 \text{V}: u_i - u_R - u_C - u_L = 0 \text{V} \\ i &= C \frac{\mathrm{d} u_C}{\mathrm{d} t} \\ u_L &= L \frac{di}{dt} = L C \frac{d^2 u_C}{dt^2} \\ u_i - R C \frac{d u_C}{dt} - u_C - L C \frac{d^2 u_C}{dt^2} = 0 \end{split}$$