$$\frac{1}{C} \cdot i + L \cdot \frac{d^{2}i}{dt^{2}} + R \cdot \frac{di}{dt} = 0 \mid : L \text{ und sortieren}$$

$$\frac{d^{2}i}{dt^{2}} + \frac{R}{L} \cdot \frac{di}{dt} + \frac{1}{LC} \cdot i = 0 \mid \frac{R}{L} = \delta; \frac{1}{LC} = \omega_{0}^{2}$$

 $\frac{\mathrm{d}^2 i}{\mathrm{d}t^2} + \frac{R}{L} \cdot \frac{\mathrm{d}i}{\mathrm{d}t} + \frac{1}{LC} \cdot i = 0 \quad \left| \begin{array}{c} R \\ L \end{array} \right| = \delta; \quad \frac{1}{LC} = \omega_0^2$

 $\ddot{i} + \delta \dot{i} + \omega_0^2 i$

 $\frac{1}{C} \int i \cdot dt + L \cdot \frac{di}{dt} + R \cdot i = 0 \mid \text{Differentiation}$