

$$\frac{dI}{dt} = -R(I - V_R)$$

$$\Rightarrow C(I-VR) = e^{-RL}$$

$$I = \frac{V}{R} + \frac{1}{c} e^{-\frac{K}{L}t}$$

 $\underline{T(t)} = \frac{V(1 - e^{-\frac{R}{L}t})}{R}$ V = Io steady state current ie I(t) = Io(1-e)

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