$$E = i(+)R + \frac{1}{c} \int i(+)d+$$

$$\Rightarrow i(+) = c dv$$

$$\int$$

L

R

$$V_c = \frac{1}{C} \cdot \frac{I_{(s)}}{S}$$

$$\frac{E}{S} \longrightarrow \frac{1}{Cs}$$

$$\frac{E}{s} = R \cdot T_{(s)} + T_{s} \cdot \frac{1}{sC} = T_{(s)} \left(R + \frac{1}{sC}\right)$$

$$T(s) = \frac{E}{S} \frac{1}{(R+\frac{1}{SC})} = \frac{1}{R(SR+\frac{1}{C})} = \frac{1}{R} \frac{1}{S+\frac{1}{RC}} \Rightarrow I(H) = \frac{1}{R} e^{-\frac{1}{RC}t}$$

