

Transient Response of RC and RL Circuits

Objective

- Observe, and compare with theory, the transient response of RL, RC and RLC circuits under various damping conditions.
- To develop skills in circuit analysis and data collection
- To improve report writing

Theory:

1) Transient behavior of RC circuits

For the RC circuit in Figure 9.1 assume that the power supply is $V_i(t) = V_s \cdot u(t)$ volts, where $u(t)$ is the unit step function, i.e., $u(t) = 0, t < 0$ and $u(t) = 1, t \geq 0$.

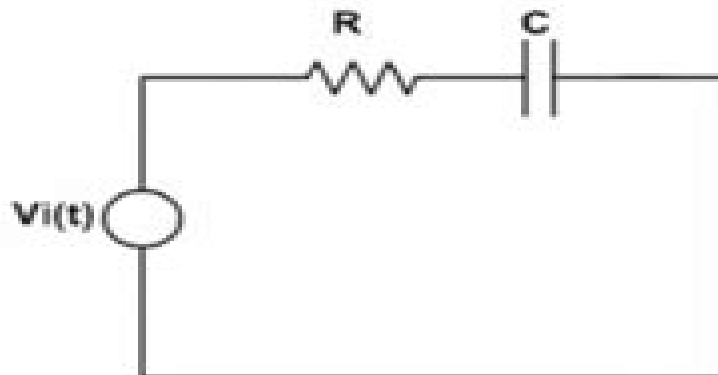


Figure 9.1 - Series RC circuit.

Then, the capacitor voltage transient equation can be written as

$$V_C(t) = V_C(\infty) + \left[V_C(0) - V_C(\infty) \cdot e^{\left(\frac{-t}{T_c}\right)} \right] \quad (9.1)$$

Where $T_c = RC$ is the time constant and $V_C(0)$ and $V_C(\infty)$ are the initial and final voltages across the capacitor at time $t = 0$ and $t = \infty$, respectively.

2) Transient behavior of RL circuits

For the RL circuit in Figure 9.2, assume that the power supply is $V_i(t) = V_s \cdot u(t)$ volts.

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Robert R. Redfield



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