

Circuit-Capacitance Analysis

<p>1. Problem Statement: A circuit with a voltage source V_s, a resistor R, and a capacitor C in series. The capacitor is initially uncharged. Find the current $i(t)$ and the voltage $v_C(t)$ across the capacitor for $t > 0$.</p>	<p>2. Diagram: A circuit diagram showing a voltage source V_s, a resistor R, and a capacitor C connected in series. The current $i(t)$ flows clockwise from the positive terminal of the source.</p>
<p>3. Analysis: The circuit is a first-order RC network. The time constant is $\tau = RC$. The current $i(t)$ is given by $i(t) = \frac{V_s}{R} e^{-t/RC}$ and the voltage $v_C(t)$ is given by $v_C(t) = V_s (1 - e^{-t/RC})$.</p>	<p>4. Conclusion: The current $i(t)$ and voltage $v_C(t)$ are as stated above.</p>

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<p>1. Problem Statement: A circuit with a voltage source V_s, a resistor R, and a capacitor C in parallel. The capacitor is initially uncharged. Find the current $i(t)$ and the voltage $v_C(t)$ across the capacitor for $t > 0$.</p>	<p>2. Diagram: A circuit diagram showing a voltage source V_s, a resistor R, and a capacitor C connected in parallel. The current $i(t)$ flows clockwise from the positive terminal of the source.</p>
<p>3. Analysis: The circuit is a first-order RC network. The time constant is $\tau = RC$. The current $i(t)$ is given by $i(t) = \frac{V_s}{R} e^{-t/RC}$ and the voltage $v_C(t)$ is given by $v_C(t) = V_s (1 - e^{-t/RC})$.</p>	<p>4. Conclusion: The current $i(t)$ and voltage $v_C(t)$ are as stated above.</p>

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