

PHYS 322 PreLab 3: Mastering the AC circuit

Q1/1

Reflect on the two circuit elements in Figure 1 and the waveforms they produce (you can see them in the next question). What does the current through a capacitor do inside a full cycle (twice each period)?

It is the AC and the current alternates between its max and min values and goes back and forth in each cycle.

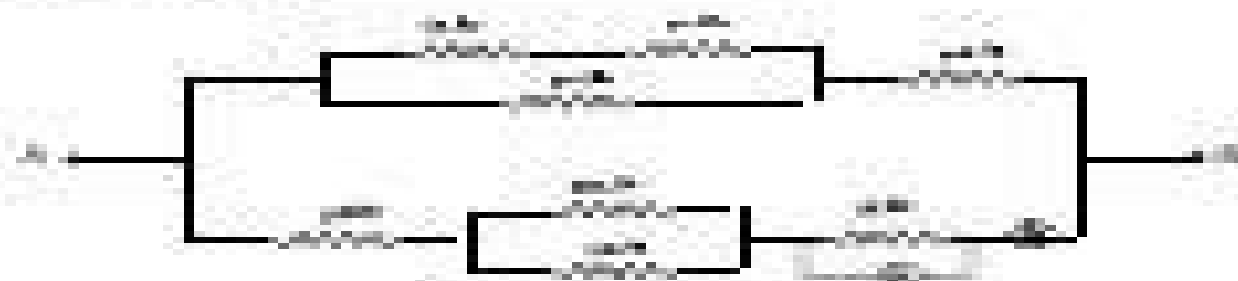


Figure 1: AC circuit elements

Q2/1

Reflect on the impedance relationships of the two circuits in Figure 2. Write down the two AC Ohm's law relationships:

$$V_0 = \frac{1}{\omega C} I_0 \quad \text{and} \quad V_0 = I_0 R \quad \text{and} \quad I_0 = \frac{V_0}{R} \quad \text{and} \quad I_0 = \frac{V_0}{\frac{1}{\omega C}}$$

$$I_{\text{peak}} = V_0 \frac{1}{\frac{1}{\omega C}} = I_{\text{max}}$$

that is $I_0 = I_{\text{max}}$

What are going to connect the characteristics of capacitors and resistors (current voltage)?

Q3/1

Reflect on the circuit along the in Figure 2. What are the two characteristic quantities in capacitors that current through the AC circuit? What is the characteristic frequency of the AC?

The characteristic current in the capacitor with AC voltage is current. Characteristic frequency of AC is the value of the current.

Q4/1

Reflect on the two circuit elements of Figure 2. What are the two characteristic quantities in capacitors that current through the AC circuit?

It is the AC and the current alternates between its max and min values and goes back and forth in each cycle.

Physics 212 Prelab 9 Answers

E Durkheim



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