

Physics

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(Chapter 7)(Alternating Current)
(Class 12)

It can be observed that I_0 is very small in this case. Hence, at high frequencies, the inductor amounts to an open circuit.

In a dc circuit, after a steady state is achieved, $\omega = 0$. Hence, inductor L behaves like a pure conducting object.

Question 7.15:

A $100\ \mu\text{F}$ capacitor in series with a $40\ \Omega$ resistance is connected to a $110\ \text{V}$, $60\ \text{Hz}$ supply.

(a) What is the maximum current in the circuit?

(b) What is the time lag between the current maximum and the voltage maximum?

Answer 7.15:

Capacitance of the capacitor, $C = 100\ \mu\text{F} = 100 \times 10^{-6}\ \text{F}$

Resistance of the resistor, $R = 40\ \Omega$

Supply voltage, $V = 110\ \text{V}$

(a) Frequency of oscillations, $\nu = 60\ \text{Hz}$

Angular frequency, $\omega = 2\pi\nu = 2\pi \times 60\ \text{rad/s}$

For a RC circuit, we have the relation for impedance as: $Z = \sqrt{R^2 + \frac{1}{\omega^2 C^2}}$

Peak voltage, $V_0 = V\sqrt{2} = 110\sqrt{2}$. Maximum current is given as:

$$\begin{aligned} I_0 &= \frac{V_0}{Z} \\ &= \frac{V_0}{\sqrt{R^2 + \frac{1}{\omega^2 C^2}}} \\ &= \frac{110\sqrt{2}}{\sqrt{(40)^2 + \frac{1}{(120\pi)^2 \times (10^{-4})^2}}} \\ &= \frac{110\sqrt{2}}{\sqrt{1600 + \frac{10^8}{(120\pi)^2}}} = 3.24\ \text{A} \end{aligned}$$

(b) In a capacitor circuit, the voltage lags behind the current by a phase angle of Φ . This angle is given by the relation:

$$\begin{aligned} \therefore \tan \phi &= \frac{\frac{1}{\omega C}}{R} = \frac{1}{\omega CR} \\ &= \frac{1}{120\pi \times 10^{-4} \times 40} = 0.6635 \\ \phi &= \tan^{-1}(0.6635) = 33.56^\circ \\ &= \frac{33.56\pi}{180}\ \text{rad} \\ \therefore \text{Time lag} &= \frac{\phi}{\omega} \\ &= \frac{33.56\pi}{180 \times 120\pi} = 1.55 \times 10^{-3}\ \text{s} = 1.55\ \text{ms} \end{aligned}$$

Hence, the time lag between maximum current and maximum voltage is $1.55\ \text{ms}$.

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Mastering Python Scientific Computing Hemant Kumar Mehta, 2015-09-23 A complete guide for

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The Game of Life 2 The Winning Tactics Sebastian Hale, The Game of Life 2 The Winning Tactics brings the classic board game into a bright modern era with new decisions and possibilities Sebastian Hale explores career paths family choices and investment strategies that shape your journey Learn how to earn crowns plan for long term goals and outmaneuver opponents by making smart life choices A guide to turning luck into lifestyle domination

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