It can be observed that Io 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, ω = 0. Hence, inductor L behaves like a pure conducting object.

Question 7.15:

A 100 μF capacitor in series with a 40 Ω resistance is connected to a 110 V, 60 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, $C = 100 \mu F = 100 \times 10^{-6} F$

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

Supply voltage, V = 110 V

(a) Frequency of oscillations, v= 60 Hz

Angular frequency, $\omega = 2\pi v = 2\pi \times 60 \, rad/s$

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:

$$\begin{split} I_{a} &= \frac{V_{a}}{Z} \\ &= \frac{V_{a}}{\sqrt{R^{2} + \frac{1}{as^{2}C^{2}}}} \\ &= \frac{110\sqrt{2}}{\sqrt{\left(40\right)^{2} + \frac{1}{\left(120x\right)^{2} \times \left(10^{-a}\right)^{2}}}} \\ &= \frac{110\sqrt{2}}{\sqrt{1600 + \frac{10^{a}}{\left(120x\right)^{2}}}} = 3.24 \text{ A}. \end{split}$$



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

$$\tan \phi = \frac{1}{e^{0}C} = \frac{1}{e^{0}CR}$$

$$= \frac{1}{120\pi \times 10^{-6} \times 40} = 0.6635$$

$$\phi = \tan^{-1}(0.6635) = 33.56^{\circ}$$
33.56 π

$$\simeq \frac{33.56\alpha}{180} \text{ rad}$$

... Time lag =
$$\frac{\theta}{e^{2}}$$

= $\frac{33.56\pi}{180 \times 120\pi}$ = 1.55×10⁻³s = 1.55 ms

Hence, the time lag between maximum current and maximum voltage is 1.55 ms.

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