

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 Physics Chapter 4 Answers

Douglas C. Giancoli



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WHAT YOU WILL LEARN Use Unity 3D to develop build and run mobile 3D applications Use different AR frameworks to integrate augmented reality into 3D scenes Combine networking and cutting edge technologies to develop dynamic and interactive AR applications Learn how to use the best practices of AR design to create captivating experiences Optimize application performance for a truly seamless and immersive user experience

WHO THIS BOOK IS FOR This book is for anyone who has a basic understanding of programming and is interested in learning to build AR applications using Unity 3D

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Scientists and Engineers with Modern Physics Douglas C. Giancoli, 2008 Key Message: This book aims to explain physics in a readable and interesting manner that is accessible and clear and to teach readers by anticipating their needs and difficulties without oversimplifying. Physics is a description of reality and thus each topic begins with concrete observations and experiences that readers can directly relate to. We then move on to the generalizations and more formal treatment of the topic. Not only does this make the material more interesting and easier to understand but it is closer to the way physics is actually practiced. Key Topics: INTRODUCTION, MEASUREMENT, ESTIMATING, DESCRIBING MOTION, KINEMATICS IN ONE DIMENSION, KINEMATICS IN TWO OR THREE DIMENSIONS, VECTORS, DYNAMICS, NEWTON'S LAWS OF MOTION USING NEWTON'S LAWS, FRICTION, CIRCULAR MOTION, DRAG FORCES, GRAVITATION AND NEWTON'S LAW OF GRAVITATION, SYNTHESIS WORK AND ENERGY, CONSERVATION OF ENERGY, LINEAR MOMENTUM, ROTATIONAL MOTION, ANGULAR MOMENTUM, GENERAL ROTATION, STATIC EQUILIBRIUM, ELASTICITY AND FRACTURE, FLUIDS, OSCILLATIONS, WAVE MOTION, SOUND, TEMPERATURE, THERMAL EXPANSION AND THE IDEAL GAS LAW, KINETIC THEORY OF GASES, HEAT AND THE FIRST LAW OF THERMODYNAMICS, SECOND LAW OF THERMODYNAMICS, ELECTRIC CHARGE AND ELECTRIC FIELD, GAUSS'S LAW, ELECTRIC POTENTIAL, CAPACITANCE, DIELECTRICS, ELECTRIC ENERGY STORAGE, ELECTRIC CURRENTS AND RESISTANCE, DC CIRCUITS, MAGNETISM, SOURCES OF MAGNETIC FIELD, ELECTROMAGNETIC INDUCTION AND

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Market Description This book is written for readers interested in learning the basics of physics

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