

6. In which of the following devices, the eddy current effect is not used?

(1) Induction furnace
(2) Magnetic braking in train
(3) Electromagnet
(4) Electric heater

Answer (4)

Sol. Electric heater does not involve Eddy currents. It uses Joule's heating effect.

7. A soap bubble, having radius of 1 mm, is blown from a detergent solution having a surface tension of 2.5×10^{-2} N/m. The pressure inside the bubble equals at a point Z_0 below the free surface of water in a container. Taking $g = 10$ m/s², density of water = 10^3 kg/m³, the value of Z_0 is :

(1) 100 cm (2) 10 cm
(3) 1 cm (4) 0.5 cm

Answer (3)

Sol. Excess pressure = $\frac{4T}{R}$. Gauge pressure

$$= \rho g Z_0$$

$$P_0 + \frac{4T}{R} = P_0 + \rho g Z_0$$

$$Z_0 = \frac{4T}{R \times \rho g}$$

$$Z_0 = \frac{4 \times 2.5 \times 10^{-2}}{10^{-3} \times 1000 \times 10} \text{ m}$$

$$Z_0 = 1 \text{ cm}$$

8. Which colour of the light has the longest wavelength?

(1) Red (2) Blue
(3) Green (4) Violet

Answer (1)

Sol. Red has the longest wavelength among the given options.

9. A disc of radius 2 m and mass 100 kg rolls on a horizontal floor. Its centre of mass has speed of 20 cm/s. How much work is needed to stop it?

(1) 3 J (2) 30 kJ
(3) 2 J (4) 1 J

Answer (1)

Sol. Work required = change in kinetic energy

$$\text{Final KE} = 0$$

$$\text{Initial KE} = \frac{1}{2}mv^2 + \frac{1}{2}I\omega^2 = \frac{3}{4}mv^2$$

$$= \frac{3}{4} \times 100 \times (20 \times 10^{-2})^2 = 3 \text{ J}$$

$$|\Delta \text{KE}| = 3 \text{ J}$$

10. The displacement of a particle executing simple harmonic motion is given by

$$y = A_0 + A \sin \omega t + B \cos \omega t$$

Then the amplitude of its oscillation is given by :

(1) $A_0 + \sqrt{A^2 + B^2}$

(2) $\sqrt{A^2 + B^2}$

(3) $\sqrt{A_0^2 + (A+B)^2}$

(4) $A + B$

Answer (2)



$$y = A_0 + A \sin \omega t + B \sin \omega t$$

Equate SHM

$$y' = y - A_0 = A \sin \omega t + B \cos \omega t$$

Resultant amplitude

$$R = \sqrt{A^2 + B^2 + 2AB \cos 90^\circ}$$

$$= \sqrt{A^2 + B^2}$$

11. Two similar thin equi-convex lenses, of focal length f each, are kept coaxially in contact with each other such that the focal length of the combination is F_1 . When the space between the two lenses is filled with glycerine (which has the same refractive index ($\mu = 1.5$) as that of glass) then the equivalent focal length is F_2 . The ratio $F_1 : F_2$ will be :

(1) 2 : 1 (2) 1 : 2

(3) 2 : 3 (4) 3 : 4

Answer (2)

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