

**JEE (MAIN) – 2014 TEST PAPER WITH SOLUTION
(HELD ON SUNDAY 06th APRIL, 2014)**

PART A – PHYSICS

1. The pressure that has to be applied to the ends of a steel wire of length 10 cm to keep its length constant when its temperature is raised by 100°C is :

(For steel Young's modulus is $2 \times 10^{11} \text{ N m}^{-2}$ and coefficient of thermal expansion is $1.1 \times 10^{-5} \text{ K}^{-1}$)

- (1) $2.2 \times 10^7 \text{ Pa}$ (2) $2.2 \times 10^6 \text{ Pa}$
(3) $2.2 \times 10^8 \text{ Pa}$ (4) $2.2 \times 10^9 \text{ Pa}$

Ans. (3)

Sol. Thermal strain $= \alpha \Delta T$

(by $l = l_0 (1 + \alpha \Delta T)$)

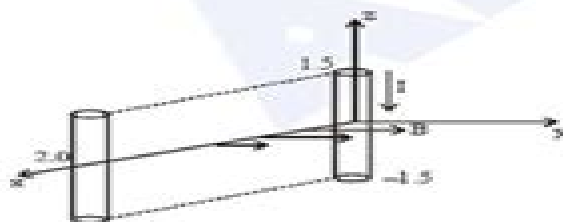
$\Rightarrow$ Thermal stress in Rod (Pressure due to

Thermal strain) $= Y \alpha \Delta T$

$$= 2 \times 10^{11} \times 1.1 \times 10^{-5} \times 100$$

$$= 2.2 \times 10^8 \text{ Pa}$$

2. A conductor lies along the z -axis at $-1.5 \leq z \leq 1.5 \text{ m}$ and carries a fixed current of 10.0 A in $-\hat{z}$ direction (see figure). For a field $\vec{B} = 3.0 \times 10^{-4} e^{-0.2z} \hat{y} \text{ T}$, find the power required to move the conductor at constant speed to $x = 2.0 \text{ m}$, $y = 0 \text{ m}$ in $5 \times 10^{-5} \text{ s}$. Assume parallel motion along the x -axis.



(1) 14.85 W

(2) 29.7 W

(3) 1.57 W

(4) 2.97 W

Ans. (4)

Sol. Force on Conductor $\vec{F} = i \vec{l} \times \vec{B}$

$$\vec{F} = (10)(3) (3 \times 10^{-4} e^{-0.2z})$$

$$\vec{F} = 90 \times 10^{-4} (e^{-0.2z}) \hat{z}$$

$$\text{Work done } W = \int_{-1.5}^{1.5} F dz$$

$$W = 90 \times 10^{-4} \int_{-1.5}^{1.5} e^{-0.2z} dz$$

$$W = 90 \times 10^{-4} \left[\frac{e^{-0.2z}}{-0.2} \right]_{-1.5}^{1.5}$$

$$= 90 \times 10^{-4} \left[\frac{e^{-0.3} - 1}{-0.2} \right]$$

Now Average power

$$P_{\text{avg}} = \frac{\text{work}}{\text{time}}$$

$$P_{\text{avg}} = \frac{90 \times 10^{-4} \times (1 - e^{-0.3})}{5 \times 10^{-5} \times 0.2}$$

$$P_{\text{avg}} = 2.97 \text{ Watt}$$

3. A bob of mass m attached to an inextensible string of length l is suspended from a vertical support. The bob rotates in a horizontal circle with an angular speed ω rad/s about the vertical. About the point of suspension :

- (1) Angular momentum changes in direction but not in magnitude
(2) Angular momentum changes both in direction and magnitude
(3) Angular momentum is conserved
(4) Angular momentum changes in magnitude but not in direction.

Ans. (1)

Jee Main 2014 Paper

Yi-Tong Ma



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