[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 2×10^{11} N m^{-2} and coefficient of thermal expansion is 1.1×10^{-5} K^{-1})
(1) 2.2×10^{7} Pa (2) 2.2×10^{6} Pa
(3) 2.2×10^{8} Pa (4) 2.2×10^{9} Pa

Sol. **3**

$y = 2 \times 10^{11}$

$l_t = l_0 (1 + \alpha \Delta t)$

$\therefore \Delta t = 100°$ C

$\alpha = 1.1 \times 10^{-5}$ k^{-1}

$l_t - l_0 = \alpha \Delta t$

$\Rightarrow \Delta l = 1.1 \times 10^{-5} \times 100$

$= 1.1 \times 10^{-3}$

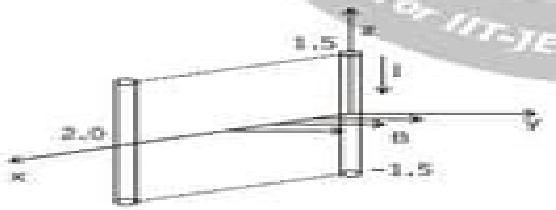
$y = \dfrac{p}{1.1 \times 10^{-3}}$

$2 \times 10^{11} = \dfrac{p}{1.1 \times 10^{-3}}$

$\Rightarrow p = 2 \times 1.1 \times 10^{11} \times 10^{-3}$

$\Rightarrow p = 2.2 \times 10^{8}$ Pa

2. A conducor lies along the z-axis at $-1.5 \le z < 1.5$ m and carries a fixed current of 10.0 A in $-\hat{a}_z$ direction (see figure). For a field $\vec{B} = 3.0 \times 10^{-4} e^{-0.2x} \hat{a}_y$ T, find the power required to move the conductor at constant speed to x = 2.0 m, y = 0 m in 5×10^{-3} s. Assume parallel motion along the x-axis.



(1) 14.85 W (2) 29.7 W
(3) 1.57 W (4) 2.97 W

Sol. **4**

$w = \int 10 \times 3 \times 3 \times 10^{-4} e^{-0.2x} dx$

$= 4.5 \times 10^{-3} (1 - e^{-0.4})$

$P = \dfrac{w}{T} = 2.97$

3. A bob of mass m attached to an inextensible string of length r 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.

Sol. **1**

$\vec{L}$ vector rotates in direction but magnitude remains constant.

4. The current voltage relation of diode is given by $I = (e^{1000V/T} - 1)$ mA, where the applied voltage V is in volts and the temperature T is in degree Kelvin. If a student makes an error measuring ± 0.01 V while measuring the current of 5 mA at 300 K, what will be the error in the value of current in mA?
(1) 0.5 mA (2) 0.05 mA
(3) 0.2 mA (4) 0.02 mA

Sol. **3**

$I = \left(e^{\frac{1000V}{T}} - 1\right)$ mA

$e^{\frac{1000V}{T}} = I + 1$

$\log (I + 1) = \dfrac{1000V}{T}$

$\dfrac{1}{I+1} \times dI = \dfrac{1000}{T} \times dv$

$dI = \dfrac{1000}{300} \times (5 + 1)$ mA $\times 0.01$

$= 0.2$ mA

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Table of Contents Jee Paper 2 2014 Solution Set Of Code K

1. Understanding the eBook Jee Paper 2 2014 Solution Set Of Code K
    - The Rise of Digital Reading Jee Paper 2 2014 Solution Set Of Code K
    - Advantages of eBooks Over Traditional Books
2. Identifying Jee Paper 2 2014 Solution Set Of Code K
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Jee Paper 2 2014 Solution Set Of Code K
    - User-Friendly Interface
4. Exploring eBook Recommendations from Jee Paper 2 2014 Solution Set Of Code K
    - Personalized Recommendations
    - Jee Paper 2 2014 Solution Set Of Code K User Reviews and Ratings
    - Jee Paper 2 2014 Solution Set Of Code K and Bestseller Lists

5. Accessing Jee Paper 2 2014 Solution Set Of Code K Free and Paid eBooks
    - Jee Paper 2 2014 Solution Set Of Code K Public Domain eBooks
    - Jee Paper 2 2014 Solution Set Of Code K eBook Subscription Services
    - Jee Paper 2 2014 Solution Set Of Code K Budget-Friendly Options
6. Navigating Jee Paper 2 2014 Solution Set Of Code K eBook Formats
    - ePub, PDF, MOBI, and More
    - Jee Paper 2 2014 Solution Set Of Code K Compatibility with Devices
    - Jee Paper 2 2014 Solution Set Of Code K Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Jee Paper 2 2014 Solution Set Of Code K
    - Highlighting and Note-Taking Jee Paper 2 2014 Solution Set Of Code K
    - Interactive Elements Jee Paper 2 2014 Solution Set Of Code K
8. Staying Engaged with Jee Paper 2 2014 Solution Set Of Code K
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Jee Paper 2 2014 Solution Set Of Code K
9. Balancing eBooks and Physical Books Jee Paper 2 2014 Solution Set Of Code K
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Jee Paper 2 2014 Solution Set Of Code K
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Jee Paper 2 2014 Solution Set Of Code K
    - Setting Reading Goals Jee Paper 2 2014 Solution Set Of Code K
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Jee Paper 2 2014 Solution Set Of Code K
    - Fact-Checking eBook Content of Jee Paper 2 2014 Solution Set Of Code K
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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