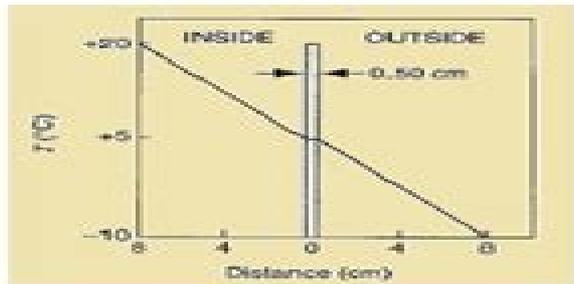


Solved Examples on Heat Transfer:-

Question 1:-

An idealized representation of the air temperature as a function of distance from a single-pane window on a calm, winter day is shown in below figure. The window dimensions are 60 cm × 60 cm × 0.50 cm. (a) At what rate does heat flow out through the window? (Hint: The temperature drop across the glass is very small.) (b) Estimate the difference in temperature between the inner and outer glass surfaces.



Concept:-

The rate H at which heat is transferred through the slab is,

- (a) directly proportional to the area (A) available.
- (b) inversely proportional to the thickness of the slab Δx .
- (c) directly proportional to the temperature difference ΔT .

$$\text{So, } H = kA \Delta T / \Delta x$$

Here, k is the proportionality constant and is called thermal conductivity of the material.

From the equation $H = kA \Delta T / \Delta x$, the temperature difference ΔT will be,

$$\Delta T = H \Delta x / kA$$

The temperature gradient is defined as,

$$\text{Temperature gradient} = \Delta T / \Delta x$$

Solution:-

(a) To find out the rate of heat flows out through the window, first we have to find out the temperature gradient both inside and outside the window.

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Table of Contents Heat Transfer Lessons With Examples Solved By Matlab

1. Understanding the eBook Heat Transfer Lessons With Examples Solved By Matlab
 - The Rise of Digital Reading Heat Transfer Lessons With Examples Solved By Matlab
 - Advantages of eBooks Over Traditional Books
2. Identifying Heat Transfer Lessons With Examples Solved By Matlab
 - 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 Heat Transfer Lessons With Examples Solved By Matlab
 - User-Friendly Interface
4. Exploring eBook Recommendations from Heat Transfer Lessons With Examples Solved By Matlab
 - Personalized Recommendations
 - Heat Transfer Lessons With Examples Solved By Matlab User Reviews and Ratings
 - Heat Transfer Lessons With Examples Solved By Matlab and Bestseller Lists
5. Accessing Heat Transfer Lessons With Examples Solved By Matlab Free and Paid eBooks
 - Heat Transfer Lessons With Examples Solved By Matlab Public Domain eBooks
 - Heat Transfer Lessons With Examples Solved By Matlab eBook Subscription Services

- Heat Transfer Lessons With Examples Solved By Matlab Budget-Friendly Options
- 6. Navigating Heat Transfer Lessons With Examples Solved By Matlab eBook Formats
 - ePub, PDF, MOBI, and More
 - Heat Transfer Lessons With Examples Solved By Matlab Compatibility with Devices
 - Heat Transfer Lessons With Examples Solved By Matlab Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Heat Transfer Lessons With Examples Solved By Matlab
 - Highlighting and Note-Taking Heat Transfer Lessons With Examples Solved By Matlab
 - Interactive Elements Heat Transfer Lessons With Examples Solved By Matlab
- 8. Staying Engaged with Heat Transfer Lessons With Examples Solved By Matlab
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Heat Transfer Lessons With Examples Solved By Matlab
- 9. Balancing eBooks and Physical Books Heat Transfer Lessons With Examples Solved By Matlab
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Heat Transfer Lessons With Examples Solved By Matlab
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Heat Transfer Lessons With Examples Solved By Matlab
 - Setting Reading Goals Heat Transfer Lessons With Examples Solved By Matlab
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Heat Transfer Lessons With Examples Solved By Matlab
 - Fact-Checking eBook Content of Heat Transfer Lessons With Examples Solved By Matlab
 - 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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