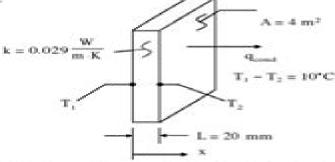
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KNOWN: Thermal conductivity, thickness and temperature difference across a sheet of rigid extruded insulation.

FIND: (a) The heat flux through a 2 m × 2 m sheet of the insulation, and (b) The heat rate through the sheet.

SCHEMATIC:



ASSUMPTIONS: (1) One-dimensional conduction in the x-direction, (2) Steady-state conditions, (3) Constant properties.

ANALYSIS: From Equation 1.2 the heat flux is

$$q^* = -k \frac{dT}{dx} = k \frac{T_L - T_2}{L}$$

 dx
 L

Solving.

$$q'' = 0.029 \frac{W}{m \cdot K} \times \frac{10K}{0.02 \text{ m}}$$

$$q''_x = 14.5 \frac{W}{m^2}$$

The heat rate is

$$q = q^* \cdot A = 14.5 \frac{W}{m^2} \times 4 m^2 = 58 W$$

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R Barnett

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Table of Contents Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual

- 1. Understanding the eBook Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual
 - The Rise of Digital Reading Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual
 - 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 Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual
 - Personalized Recommendations
 - Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual User Reviews and Ratings
 - Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual and Bestseller Lists

- 5. Accessing Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual Free and Paid eBooks
 - Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual Public Domain eBooks
 - Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual eBook Subscription Services
 - Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual Budget-Friendly Options
- 6. Navigating Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual Compatibility with Devices
 - Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual
 - Highlighting and Note-Taking Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual
 - Interactive Elements Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual
- 8. Staying Engaged with Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual
- 9. Balancing eBooks and Physical Books Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual
- 10. Overcoming Reading Challenges
 - o Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual
 - Setting Reading Goals Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual
 - Fact-Checking eBook Content of Fundamentals Of Heat And Mass Transfer 7th Edition Solutions Manual
 - 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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