

### PROBLEM 1.10

**KNOWN:** Thickness, diameter and inner surface temperature of bottom of pan used to boil water. Rate of heat transfer to the pan.

**FIND:** Outer surface temperature of pan for an aluminum and a copper bottom.

**SCHEMATIC:**



**ASSUMPTIONS:** (1) One-dimensional, steady-state conduction through bottom of pan.

**ANALYSIS:** From Fourier's law, the rate of heat transfer by conduction through the bottom of the pan is

$$q = kA \frac{T_1 - T_2}{L}$$

Hence,

$$T_1 = T_2 + \frac{qL}{kA}$$

where  $A = \pi D^2 / 4 = \pi (0.2 \text{ m})^2 / 4 = 0.0314 \text{ m}^2$ .

$$\text{Aluminum: } T_1 = 110^\circ\text{C} + \frac{600 \text{ W} (0.005 \text{ m})}{240 \text{ W/m}\cdot\text{K} (0.0314 \text{ m}^2)} = 110.40^\circ\text{C}$$

$$\text{Copper: } T_1 = 110^\circ\text{C} + \frac{600 \text{ W} (0.005 \text{ m})}{390 \text{ W/m}\cdot\text{K} (0.0314 \text{ m}^2)} = 110.25^\circ\text{C}$$

**COMMENTS:** Although the temperature drop across the bottom is slightly larger for aluminum (due to its smaller thermal conductivity), it is sufficiently small to be negligible for both materials. To a good approximation, the bottom may be considered *isothermal* at  $T = 110^\circ\text{C}$ , which is a desirable feature of pots and pans.

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## **Table of Contents Heat Transfer Solution Manual 8 Ed Pdf Download**

1. Understanding the eBook Heat Transfer Solution Manual 8 Ed Pdf Download
  - The Rise of Digital Reading Heat Transfer Solution Manual 8 Ed Pdf Download
  - Advantages of eBooks Over Traditional Books
2. Identifying Heat Transfer Solution Manual 8 Ed Pdf Download
  - 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 Solution Manual 8 Ed Pdf Download
  - User-Friendly Interface
4. Exploring eBook Recommendations from Heat Transfer Solution Manual 8 Ed Pdf Download
  - Personalized Recommendations
  - Heat Transfer Solution Manual 8 Ed Pdf Download User Reviews and Ratings
  - Heat Transfer Solution Manual 8 Ed Pdf Download and Bestseller Lists
5. Accessing Heat Transfer Solution Manual 8 Ed Pdf Download Free and Paid eBooks

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  - Heat Transfer Solution Manual 8 Ed Pdf Download Budget-Friendly Options
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    - Highlighting and Note-Taking Heat Transfer Solution Manual 8 Ed Pdf Download
    - Interactive Elements Heat Transfer Solution Manual 8 Ed Pdf Download
  8. Staying Engaged with Heat Transfer Solution Manual 8 Ed Pdf Download
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Heat Transfer Solution Manual 8 Ed Pdf Download
  9. Balancing eBooks and Physical Books Heat Transfer Solution Manual 8 Ed Pdf Download
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Heat Transfer Solution Manual 8 Ed Pdf Download
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Heat Transfer Solution Manual 8 Ed Pdf Download
    - Setting Reading Goals Heat Transfer Solution Manual 8 Ed Pdf Download
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Heat Transfer Solution Manual 8 Ed Pdf Download
    - Fact-Checking eBook Content of Heat Transfer Solution Manual 8 Ed Pdf Download
    - 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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