

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.

Manual Solution Incropera 5th

Jianjun Gao



Manual Solution Incropera 5th:

The book delves into Manual Solution Incropera 5th. Manual Solution Incropera 5th is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Manual Solution Incropera 5th, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Manual Solution Incropera 5th
- Chapter 2: Essential Elements of Manual Solution Incropera 5th
- Chapter 3: Manual Solution Incropera 5th in Everyday Life
- Chapter 4: Manual Solution Incropera 5th in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Manual Solution Incropera 5th. This chapter will explore what Manual Solution Incropera 5th is, why Manual Solution Incropera 5th is vital, and how to effectively learn about Manual Solution Incropera 5th.

3. In chapter 2, this book will delve into the foundational concepts of Manual Solution Incropera 5th. This chapter will elucidate the essential principles that need to be understood to grasp Manual Solution Incropera 5th in its entirety.

4. In chapter 3, this book will examine the practical applications of Manual Solution Incropera 5th in daily life. This chapter will showcase real-world examples of how Manual Solution Incropera 5th can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Manual Solution Incropera 5th in specific contexts. This chapter will explore how Manual Solution Incropera 5th is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Manual Solution Incropera 5th. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Manual Solution Incropera 5th.

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