

## Heat and Mass Transfer Lab

### Experiment 4: The temperature profile and rate of heat transfer for radial conduction through the wall of cylinder

#### Objective:

To examine the temperature profile and determine the rate of heat transfer resulting from radial conduction through the wall of a cylinder

#### Procedure:

1. Make sure that the main switch initially off.
2. Connect one of the water tubes to the water supply and the other to drain.
3. Connect the heater supply lead for the radial conduction module into the power supply socket on the control panel.
4. Connect the six sensor (T1, 2, 3 & 4, 5, 6) leads to the radial module, with the T1 connected to the innermost plug on the radial. Connect the remaining five sensor leads to the radial module correspondingly, ending with T6 sensor lead at the edge of the radial module.
5. Turn on the water supply and ensure that water is flowing from the free end of the water pipe to drain. This should be checked at intervals.
6. Turn the heater power control knob control panel to the fully anticlockwise position.
7. Switch on the power supply and main switch: the digital readouts will be illuminated.
8. Turn the heater power control to 40 Watts and allow sufficient time for a steady state condition to be achieved before recording the temperature at all six sensor points and the input power reading on the wattmeter (Q). This procedure can be repeated for other input power between 0 to 40 watts. After each change, sufficient time must be allowed to achieve steady state conditions.
9. Plot of the temperature, T versus distance, r. Calculate the amount of heat transferred.

#### Results:

Test	Heater Power, Q (Watts)	T1 (°C)	T2 (°C)	T3 (°C)	T4 (°C)	T5 (°C)	T6 (°C)
A							
B							
C							
D							

# Mass Transfer Lab Manual

**KJ Lindholm-Leary**



## **Mass Transfer Lab Manual:**

This book delves into Mass Transfer Lab Manual. Mass Transfer Lab Manual is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Mass Transfer Lab Manual, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Mass Transfer Lab Manual
  - Chapter 2: Essential Elements of Mass Transfer Lab Manual
  - Chapter 3: Mass Transfer Lab Manual in Everyday Life
  - Chapter 4: Mass Transfer Lab Manual in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Mass Transfer Lab Manual. The first chapter will explore what Mass Transfer Lab Manual is, why Mass Transfer Lab Manual is vital, and how to effectively learn about Mass Transfer Lab Manual.
3. In chapter 2, the author will delve into the foundational concepts of Mass Transfer Lab Manual. The second chapter will elucidate the essential principles that must be understood to grasp Mass Transfer Lab Manual in its entirety.
4. In chapter 3, the author will examine the practical applications of Mass Transfer Lab Manual in daily life. This chapter will showcase real-world examples of how Mass Transfer Lab Manual can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Mass Transfer Lab Manual in specific contexts. This chapter will explore how Mass Transfer Lab Manual is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Mass Transfer Lab Manual. This chapter will summarize the key points that have been discussed throughout the book.

This 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 Mass Transfer Lab Manual.

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