

## Chapter 14

# Fluid Mechanics. Solutions of Selected Problems

### 14.1 Problem 14.18 (*In the text book*)

Mercury is poured into a U-tube as in Figure (14.18a). The left arm of the tube has cross-sectional area  $A_1$  of  $10.0 \text{ cm}^2$ , and the right arm has a cross-sectional area  $A_2$  of  $5.00 \text{ cm}^2$ . One hundred grams of water are then poured into the right arm as in Figure Figure (14.18b).

- Determine the length of the water column in the right arm of the U-tube.
- Given that the density of mercury is  $13.6 \text{ g/cm}^3$ , what distance  $h$  does the mercury rise in the left arm?



Figure 14.18:

# Fluids Example Problems

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## **Fluids Example Problems:**

This book delves into Fluids Example Problems. Fluids Example Problems is a vital 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 Fluids Example Problems, encompassing both the fundamentals and more intricate discussions.

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

- Chapter 1: Introduction to Fluids Example Problems
- Chapter 2: Essential Elements of Fluids Example Problems
- Chapter 3: Fluids Example Problems in Everyday Life
- Chapter 4: Fluids Example Problems in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Fluids Example Problems. The first chapter will explore what Fluids Example Problems is, why Fluids Example Problems is vital, and how to effectively learn about Fluids Example Problems.
3. In chapter 2, the author will delve into the foundational concepts of Fluids Example Problems. This chapter will elucidate the essential principles that need to be understood to grasp Fluids Example Problems in its entirety.
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5. In chapter 4, this book will scrutinize the relevance of Fluids Example Problems in specific contexts. The fourth chapter will explore how Fluids Example Problems is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Fluids Example Problems. 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 Fluids Example Problems.

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