

## 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?

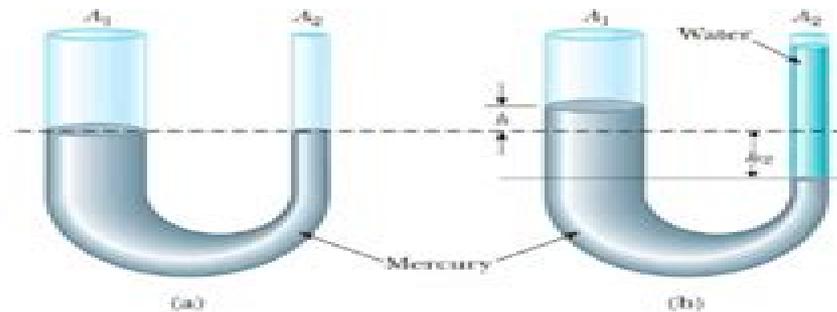


Figure 14.18:

# Fluid Mechanics Problems And Solutions

**CH Cherryholmes**



## **Fluid Mechanics Problems And Solutions:**

## **Fluid Mechanics Problems And Solutions** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Fluid Mechanics Problems And Solutions**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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