

## 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).

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

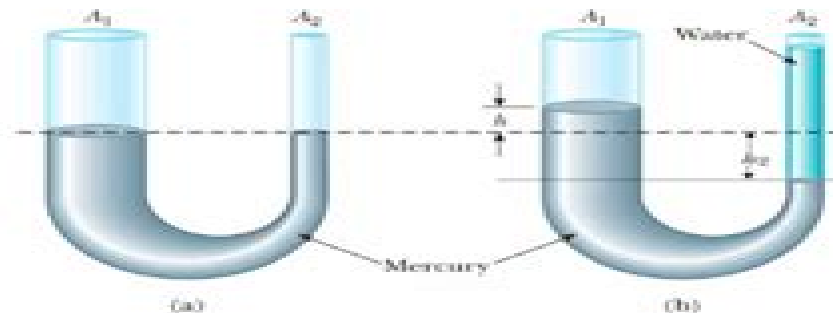


Figure 14.18:

# Fluid Mechanics Problems

**Lingjun Ying**



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