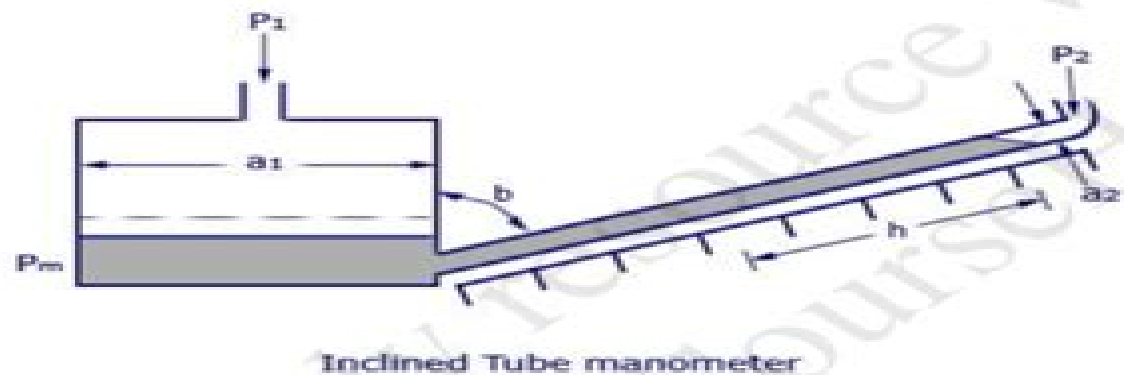
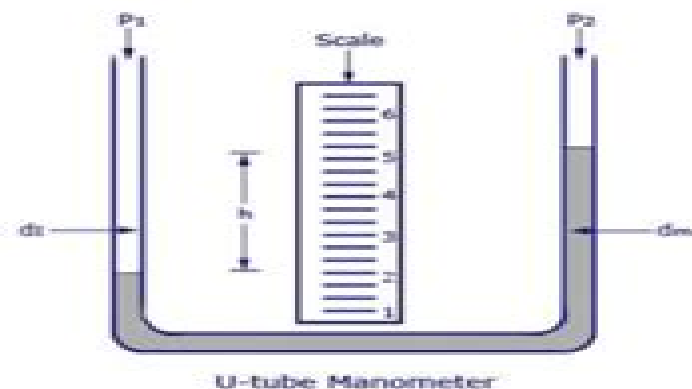


Consider the U-tube and inclined manometers shown below. For both manometers we have: Liquid densities are  $d_l$  and  $d_m$  with uncertainties  $u_{d_l}$  and  $u_{d_m}$ . The uncertainty in the inclination angle is  $u_\theta$ . And the uncertainty in the measured height is  $u_h$  in both cases.



- a) (4 points) Derive the equation for the static sensitivity of the U-tube manometer.
- b) (4 points) Derive the equation for the static sensitivity of the inclined manometer as a function of the angle  $b$  in the figure, assuming  $a_2 \ll a_1$ .
- c) (3 points) Why is the assumption  $a_2 \ll a_1$  needed?
- d) (3 points) Derive the equation for the design-state uncertainty for the U-tube manometer.
- e) (3 points) Derive the equation for the design-state uncertainty for the inclined manometer.
- f) (3 points) Assume that the uncertainties in both densities is always 10%. Which of the following options is better to reduce the design-state uncertainty:
  - i.  $d_m$  similar to  $d_l$
  - ii.  $d_m$  larger than  $d_l$

# Good Questions On Inclined Manometers And Answers

**OP Gupta**



## **Good Questions On Inclined Manometers And Answers:**

## **Good Questions On Inclined Manometers And Answers** 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 ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Good Questions On Inclined Manometers And Answers**," published by a highly 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 is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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