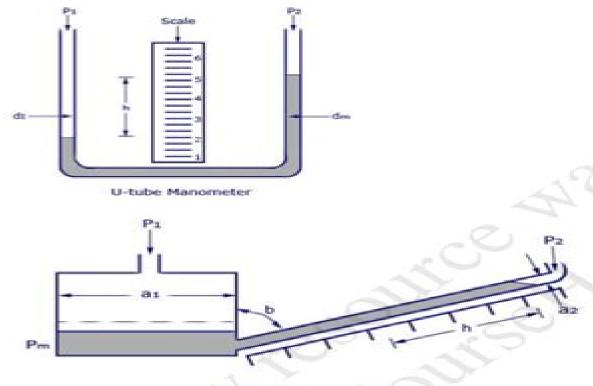
Consider the U-tube and inclined manometers shown below. For both manometers we have: Liquid densities are d<sub>I</sub> and d<sub>m</sub> with uncertainties ud<sub>I</sub> and ud<sub>m</sub>. The uncertainty in the inclination angle is u<sub>0</sub>. And the uncertainty in the measured height is u<sub>0</sub> in both cases.



Inclined Tube manometer

- 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<sub>2</sub> << a<sub>1</sub>.
- c) (3 points) Why is the assumption a<sub>2</sub> << a<sub>1</sub> 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:
  - d<sub>m</sub> similar to d<sub>I</sub>
  - ii. dm larger than d1

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

South African Institute of Mining and Metallurgy

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