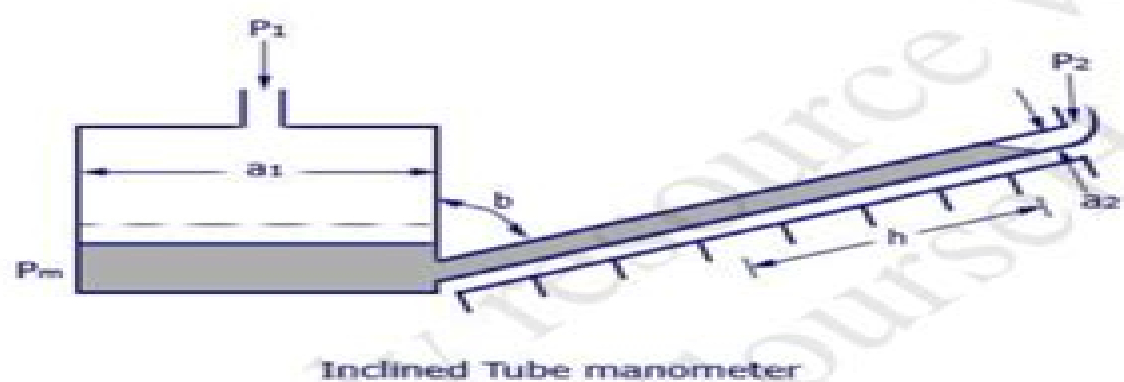
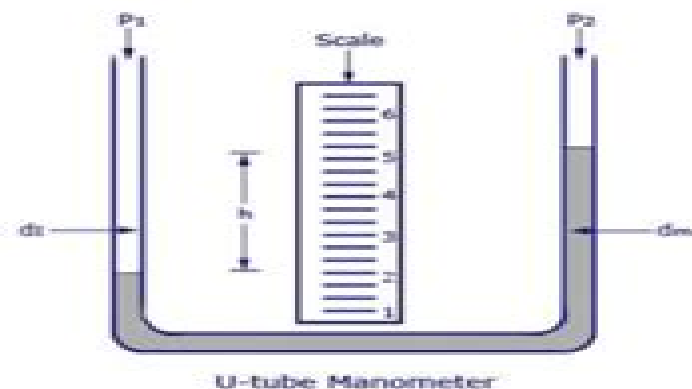


Consider the U-tube and inclined manometers shown below. For both manometers we have: Liquid densities are  $d_l$  and  $d_m$  with uncertainties  $u_{d_l}$  and  $u_{d_m}$ . The uncertainty in the inclination angle is  $u_\theta$ . And the uncertainty in the measured height is  $u_h$  in both cases.



- (4 points) Derive the equation for the static sensitivity of the U-tube manometer.
- (4 points) Derive the equation for the static sensitivity of the inclined manometer as a function of the angle  $b$  in the figure, assuming  $a_2 \ll a_1$ .
- (3 points) Why is the assumption  $a_2 \ll a_1$  needed?
- (3 points) Derive the equation for the design-state uncertainty for the U-tube manometer.
- (3 points) Derive the equation for the design-state uncertainty for the inclined manometer.
- (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:
  - $d_m$  similar to  $d_l$
  - $d_m$  larger than  $d_l$

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Stephen Michael Elonka, Alonzo Ritter Parsons, 1962

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**"Black Nickel" Plating Solutions** George B. Hogaboom, T. F. Slattery, Lloyd Blinn Ham, 1921

*Industrial Hygiene Engineering & Control, 552: Instructor's manual, [Module 8* National Institute for Occupational Safety and Health. Division of Training & Manpower Development, 1979

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web  $m \times c \times \Delta t$  equation 1 where  $m$  is the total mass of the solution solute plus solvent  $c$  is the specific heat of the solution and  $\Delta t$  is the observed temperature change the specific heat of the solution is generally assumed to be the same as that of  
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web the heat of reaction  $\Delta H_{\text{soln}}$  is written after the products in units of  $\text{kJ mol rxn}$  for example sodium hydroxide dissolves exothermically releasing 44.2 kilojoules per mole dissolved this process is represented as  $\text{NaOH (s)} \rightarrow \text{NaOH (aq)}$   $\Delta H_{\text{soln}} = -44.2 \text{ kJ mol rxn}$  write equations to similarly represent the dissolving process for

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web in this lab you are challenged to use chemistry to determine which ionic compound makes the best hand warmer in this experiment you will collect data that will allow you to calculate the heat of solution  $\Delta H_{\text{soln}}$  or the amount of energy released or absorbed in kJ mol of the substance being dissolved

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