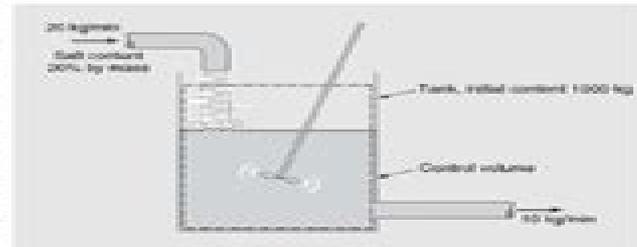


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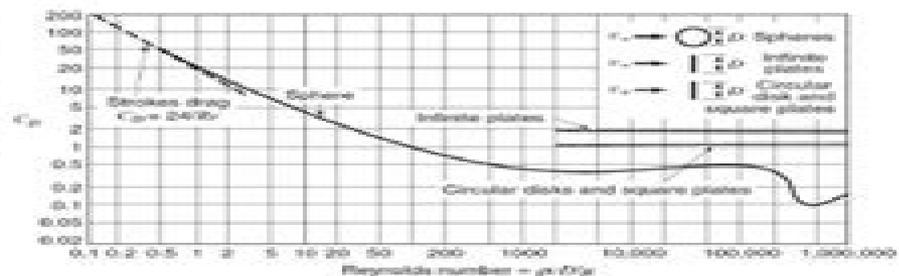
Q1) (15 points) Explain about the conditions required for deriving 1) Bernoulli equation and 2) Euler equation from the Navier-stokes equation.

Q2) (15 points) Examine the situation illustrated in right figure. A tank initially contains 1000 kg of brine containing 10% salt by mass. An inlet stream of brine containing 20% salt by mass flows into the tank at a rate of 20 kg/min. The mixture in the tank is kept uniform by stirring. Brine is removed from the tank via an outlet pipe at a rate of 10 kg/min. Find the amount of salt in the tank at any time t , and the elapsed time when the amount of salt in the tank is 200 kg.



Q3) (15 points) Determine the dimensionless groups formed from the variables involved in the flow of fluid external to a solid body. The force exerted on the body is a function of v , ρ , μ , and L (a significant dimension of the body).

Q4) (15 points) Evaluate the terminal velocity of a 7.5-mm-diameter glass sphere falling freely through (a) air at 300 K; (b) water at 300 K; and (c) glycerin at 300 K. The density of glass is 2250 kg/m^3 .



Q5) (20 points) Derive the acceleration of single particle under given condition with Lagrangian point

1) 2 dimensional, steady, incompressible flow

2) $\vec{V} = V_1[1+(\kappa/L)]\hat{i}$

Heat Transfer Exam Study Guide

Michael R. Lindeburg



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