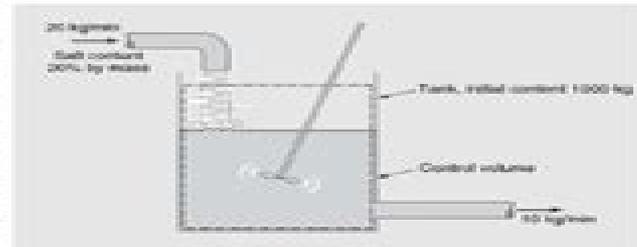


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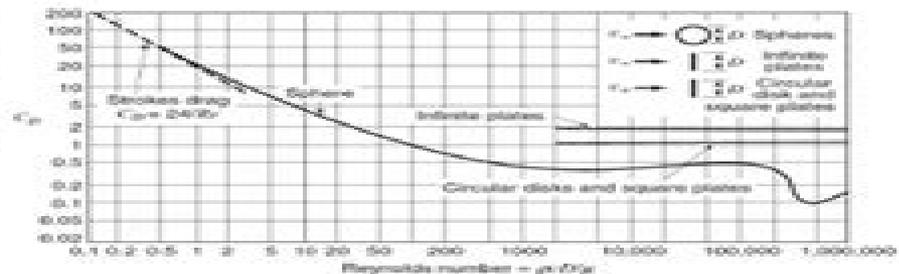
Q1) (15 points) Explain about the conditions required for deriving 1) Bernoulli equation and 2) Euler equation from the Navier-stokes equation.

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

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Heat Transfer Exam Solutions Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Heat Transfer Exam Solutions**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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