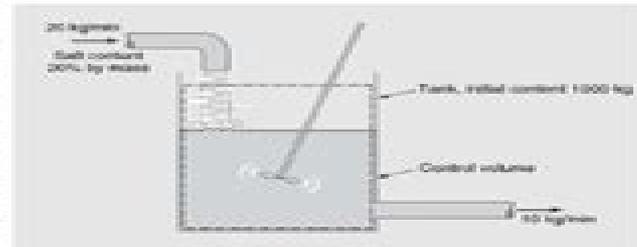


## Heat Transfer Midterm Exam July 9, 2018

Name: \_\_\_\_\_ Student no.: \_\_\_\_\_

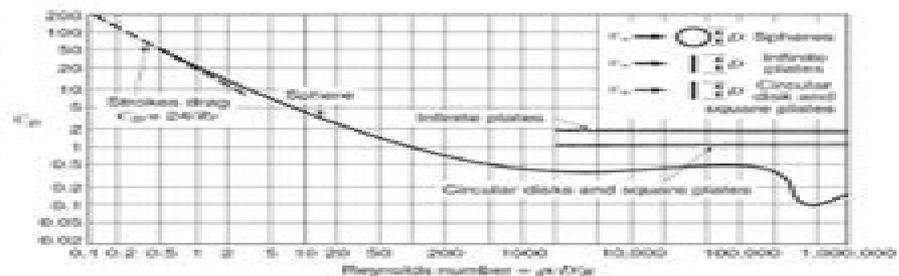
**Q1) (15 points)** Explain about the conditions required for deriving 1) Bernoulli equation and 2) Euler equation from the Navier-stokes equation.

**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  $v$ ,  $\rho$ ,  $\mu$ , 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  $2250 \text{ kg/m}^3$ .



**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 Solutions

**M Lipman**



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## **Table of Contents Heat Transfer Exam Solutions**

1. Understanding the eBook Heat Transfer Exam Solutions
  - The Rise of Digital Reading Heat Transfer Exam Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Heat Transfer Exam Solutions
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Heat Transfer Exam Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Heat Transfer Exam Solutions
  - Personalized Recommendations
  - Heat Transfer Exam Solutions User Reviews and Ratings
  - Heat Transfer Exam Solutions and Bestseller Lists
5. Accessing Heat Transfer Exam Solutions Free and Paid eBooks
  - Heat Transfer Exam Solutions Public Domain eBooks
  - Heat Transfer Exam Solutions eBook Subscription Services
  - Heat Transfer Exam Solutions Budget-Friendly Options
6. Navigating Heat Transfer Exam Solutions eBook Formats

- ePub, PDF, MOBI, and More
  - Heat Transfer Exam Solutions Compatibility with Devices
  - Heat Transfer Exam Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Heat Transfer Exam Solutions
    - Highlighting and Note-Taking Heat Transfer Exam Solutions
    - Interactive Elements Heat Transfer Exam Solutions
  8. Staying Engaged with Heat Transfer Exam Solutions
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Heat Transfer Exam Solutions
  9. Balancing eBooks and Physical Books Heat Transfer Exam Solutions
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Heat Transfer Exam Solutions
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Heat Transfer Exam Solutions
    - Setting Reading Goals Heat Transfer Exam Solutions
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Heat Transfer Exam Solutions
    - Fact-Checking eBook Content of Heat Transfer Exam Solutions
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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