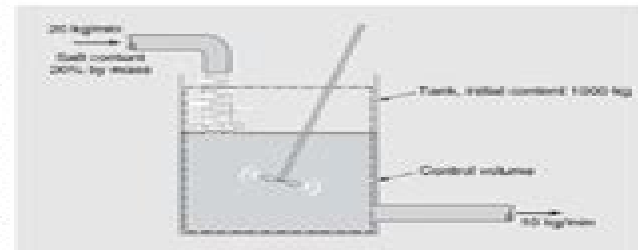


Heat Transfer Midterm Exam July 9, 2018

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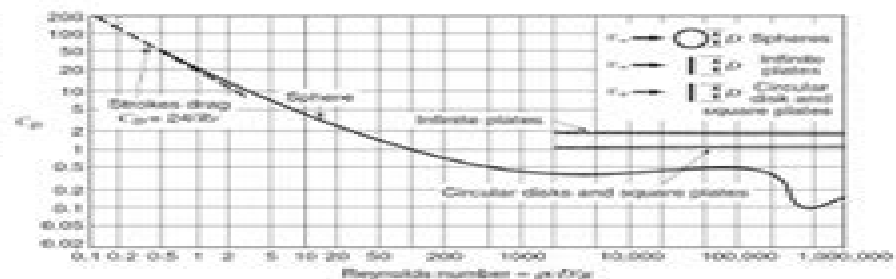
Q1) (15 points) Explain about the conditions required for deriving 1) Bernoulli equation and 2) Euler equation from the Navier-stokes equation.

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

RS Peters



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Table of Contents Heat Transfer Exam Study Guide

1. Understanding the eBook Heat Transfer Exam Study Guide
 - The Rise of Digital Reading Heat Transfer Exam Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Heat Transfer Exam Study Guide
 - 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 Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Heat Transfer Exam Study Guide
 - Personalized Recommendations
 - Heat Transfer Exam Study Guide User Reviews and Ratings
 - Heat Transfer Exam Study Guide and Bestseller Lists
5. Accessing Heat Transfer Exam Study Guide Free and Paid eBooks
 - Heat Transfer Exam Study Guide Public Domain eBooks
 - Heat Transfer Exam Study Guide eBook Subscription Services
 - Heat Transfer Exam Study Guide Budget-Friendly Options

6. Navigating Heat Transfer Exam Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Heat Transfer Exam Study Guide Compatibility with Devices
 - Heat Transfer Exam Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Heat Transfer Exam Study Guide
 - Highlighting and Note-Taking Heat Transfer Exam Study Guide
 - Interactive Elements Heat Transfer Exam Study Guide
8. Staying Engaged with Heat Transfer Exam Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Heat Transfer Exam Study Guide
9. Balancing eBooks and Physical Books Heat Transfer Exam Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Heat Transfer Exam Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Heat Transfer Exam Study Guide
 - Setting Reading Goals Heat Transfer Exam Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Heat Transfer Exam Study Guide
 - Fact-Checking eBook Content of Heat Transfer Exam Study Guide
 - 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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