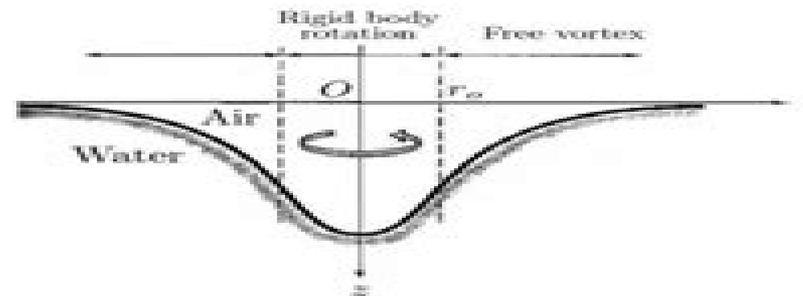


Semester Final Exam

Total marks: 40. Submissions due: 12:30 pm, 10th December 2021.

Problem 1**8 marks**

Here we attempt to understand the surface shape of a water whirlpool (see figure below). In the core region, i.e. for r less than some r_c , the water body can be considered to be in the state of solid body rotation. For $r > r_c$, viscous effects are negligible, and the flow can be treated as a free vortex.



For the flow model described above, work out the shape of the water surface, i.e. $h(r)$ where h is the height defined from a suitable reference level ($z = \text{constant}$). Make any assumptions that you need to, and provide brief justifications for the same.

Problem 2**8 marks**

The drag force on a planar object (2D) in a steady laminar flow with freestream velocity U_∞ is to be determined (see figure below). This can be accomplished by measuring the flow velocity (streamwise component u) profile at a downstream location sufficiently far from the object. Given such a profile:

$$\begin{aligned}
 u &= U_\infty \text{ for } [h/2 < y < \infty], \\
 u &= u(y) \text{ for } [-h/2 < y < h/2], \\
 u &= U_\infty \text{ for } [-\infty < y < -h/2],
 \end{aligned}$$

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Liyong Dong



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Table of Contents Computational Fluid Dynamics Exam Questions Answers

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

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