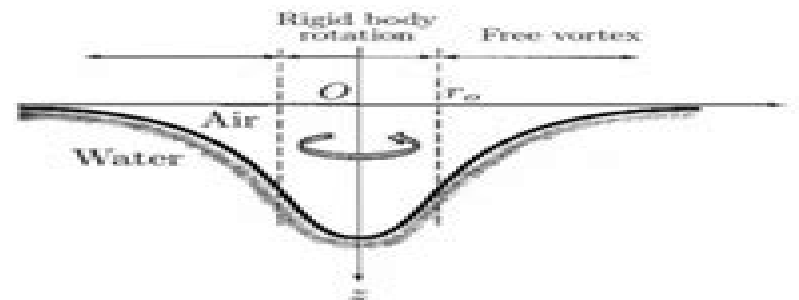


Semester Final Exam

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:

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

Computational Fluid Dynamics Exam Questions Answers

**Thirumalaisamy P.
Velavancorresponding**



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Verification and Validation in Computational Fluid Dynamics William L. Oberkampf, Timothy G. Trucano, 2002
NASA Tech Briefs ,1992-02 **A Computational Fluid Dynamics Simulation of the Hypersonic Flight of the Pegasus(TM) Vehicle Using an Artificial Viscosity Model and a Nonlinear Filtering Method** John Cadiz Mendoza, 1995 **Scientific and Technical Aerospace Reports** ,1989 **Tech Notes** ,1992 **The Influence of Computational Fluid Dynamics on Experimental Aerospace Facilities** ,1983 The Aerospace Plane Design Challenge: Credible Computational Fluid Dynamics Results Unmeel B. Mehta, 1990 *Computational Fluid Dynamics '94* Siegfried Wagner, Jacques Periaux, Ernst-Heinrich Hirschel, 1994 *Government Reports Announcements & Index* ,1989
Journal of Engineering for Gas Turbines and Power ,2009 Proceedings of the ASME Fluids Engineering Division Summer Conference, 2006: Forums American Society of Mechanical Engineers. Fluids Engineering Division, 2006
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Application of Fluid Dynamics in the Safe Design of Toppides and Superstructures ,1997 **18th AIAA Aerospace Ground Testing Conference** ,1994 **AIAA 26th Aerospace Sciences Meeting** ,1988 ENR ,2008
Applied Science & Technology Index ,1996 *International Aerospace Abstracts* ,1999

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