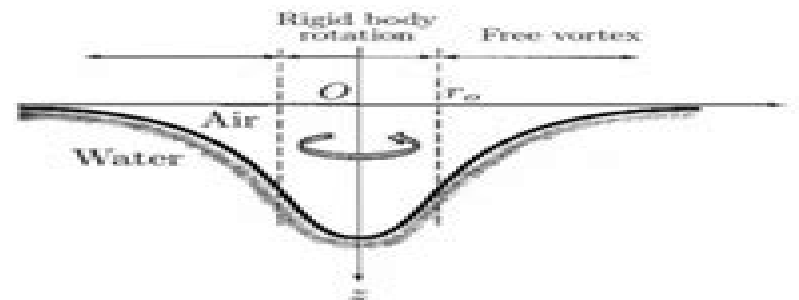


**Semester Final Exam**

Total marks: 40. Submissions due: 12:30 pm, 10<sup>th</sup> 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  $U_\infty$  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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**Siegfried Wagner, Jacques  
Periaux, Ernst-Heinrich Hirschel**



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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    **The Aerospace Plane Design Challenge: Credible Computational Fluid Dynamics Results** Unmeel B. Mehta, 1990    *The Influence of Computational Fluid Dynamics on Experimental Aerospace Facilities*, 1983    **Tech Notes**, 1992    18th AIAA Aerospace Ground Testing Conference, 1994    **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    Annual Index/abstracts of SAE Technical Papers, 2007    *37th AIAA Aerospace Sciences Meeting and Exhibit*, 1999    **NASA's Contributions to Aeronautics** Richard Hallion, 2010 Two volume collection of case studies on aspects of NACA NASA research by noted engineers airmen historians museum curators journalists and independent scholars Explores various aspects of how NACA NASA research took aeronautics from the subsonic to the hypersonic era publisher description    **50 Years of Laboratory Animal Science** American Association for Laboratory Animal Science, 1999    *Application of Fluid Dynamics in the Safe Design of Topsides and Superstructures*, 1997    **AIAA 26th Aerospace Sciences Meeting**, 1988    **Applied Science & Technology Index**, 1996    **International Aerospace Abstracts**, 1999

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