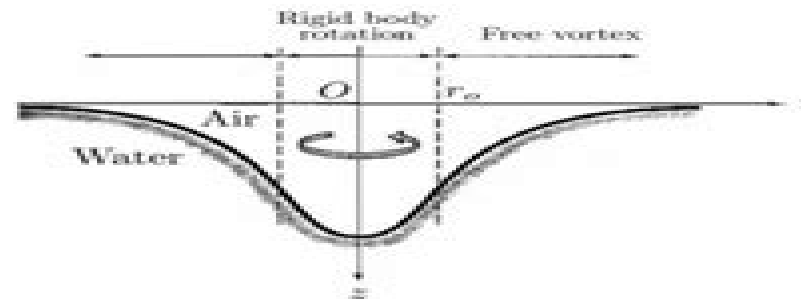


**Semester Final Exam**

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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**ML Yell**



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**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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