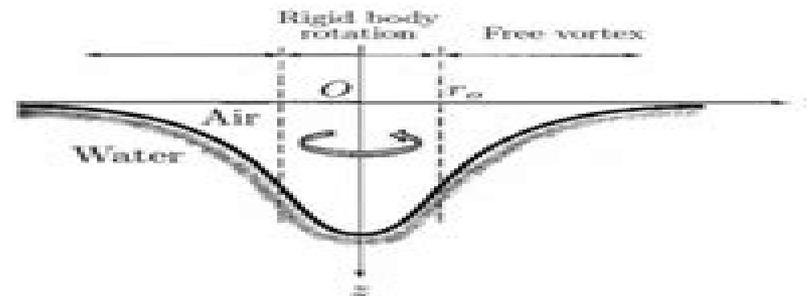


Semester Final Exam

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:

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

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