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In mathematics, potential flow around a circular cylinder is a classical solution for the flow of an inviscid, incompressible fluid around a cylinder that is transverse to the flow. Far from the cylinder, the flow is unidirectional and uniform. The flow has no vorticity and thus the velocity field is irrotational and can be modeled as a potential flow. Unlike a real fluid, this solution indicates a net zero drag on the body, a result known as d'Alembert's paradox.

## **Potential flow around a circular cylinder - Wikipedia**

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flow field around square and circular cylinders of the same characteristic length scale was studied under the same flow conditions ranging from laminar ( $Re = 2$ ) to turbulent flows ( $Re = 4 \times 10 \dots$ )

## **A Numerical Analysis of Fluid Flow Around Circular and ...**

The stream line that is defined by radius  $r = a$  describes a circle with a radius  $a$  with a center in the origin. The other two lines are the horizontal coordinates. The flow does not cross any stream line, hence the stream line represented by  $r = a$  can represent a cylindrical solid body. For the case where  $\psi \neq 0$  the stream function can be any value.



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2. Fluid Mechanics Lab #2: Flow around a Circular cylinder Total 25 Points The table below has the experimental data with true head difference (head difference divided by 2) for pressure calculation. Some of the boxes are intentionally left blank. Find the values only if required to answer the questions below.

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