coursera

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Plane Couette Flow

Plane Couette flow consists of an incompressible fluid flowing between two infinite plates separated by a distance d. The lower plate is stationary, and the upper plate is moving to the right with velocity U. The pressure p is constant. Choose a coordinate system so that the flow is in the x-direction and the y-axis is perpendicular to the two plates. Find the solution for the velocity field of the form $\boldsymbol{u}(x, y, z) = u(y)\boldsymbol{i}$.

Note: Remember, you may check the solutions in the lecture notes.

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