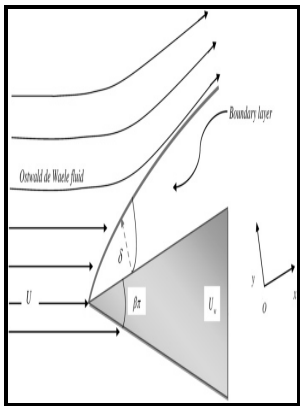
Velocity field in the laminar boundary layer induced by a disc rotating in rheologically complex fluids.

University of Salford - Axisymmetric Turbulent Jet



Description: -
-Velocity field in the laminar boundary layer induced by a disc rotating in rheologically complex fluids.
-
D24172/78Velocity field in the laminar boundary layer induced by a disc rotating in rheologically complex fluids.
Notes: PhD thesis, Chemical Engineering.
This edition was published in 1977

Tags: #US8286909B2

Experimental Investigation of the Laminar Boundary Layer Flow on a Rotating Wavy Disk

Here R o is sufficiently large that the Coriolis force could be neglected, although it is retained in the following.

Experimental Investigation of the Laminar Boundary Layer Flow on a Rotating Wavy Disk

Incorporation of such a model into maximum potential intensity theories could be used to address the question of whether or not the common presence of rolls in the hurricane boundary layer is important to predictions of hurricane intensity. Pressure everywhere on the control surface is atmospheric, and there is no net moment due to the pressure forces.

Axisymmetric Turbulent Jet

In the novel airship 70 propeller 63 along with the plurality of the micro-propeller propulsion means 53 are employed to minimize boundary layer separation. Their technique is very unique and powerful, and also can be extend to visualize any turbulent flow.

Rotating Fluid

Again this can be accomplished by the introduction of propulsion means within the boundary layer to accelerate the boundary layer fluid, leading to the reattachment of the fluid flow, and thinning the boundary layer in the process. This enabled direct comparison with the numerical and experimental results reported by other researchers.

Laminar Boundary Layer Near the Rotating End Wall of a Confined Vortex

In some instances, streamwise vortices show phase changes in the downstream direction.

Axisymmetric Turbulent Jet

Description of Related Art Including Information Disclosed Under 37 C.

Experimental Investigation of the Laminar Boundary Layer Flow on a Rotating Wavy Disk

Observations indicate that hurricane rolls represent a secondary circulation embedded in the mean BL flow. In S represents heating sources that maintain the T υ profile, which we assume to have a near-surface superadiabatic gradient below a well-mixed layer. Bastankhah and Porté-Agel ; Fuertes et al.

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