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Non-steady slow rotation of a sphere in a viscoelastic fluid 61-66

Abstract: The problem of slow rotation of a sphere in a viscoelastic fluid has been discussed in this paper. Assuming the velocity field to be circumferential, an expression for the velocity has been obtained. It has been found that unlike ordinary viscous fluid, the disturbance due to the slow rotation of a sphere is not instantaneous in the whole of the space, but it has a finite velocity of propagation.

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Abstract: The flow set up by the oscillatory motion of a porous flat plate, in a viscous, incompressible and electrically conducting fluid with a transverse magnetic field is studied. Small uniform suction (or injection) has been imposed along the surface of the plate. It is found that when the induced magnetic field is negligible compared to the imposed field, the effect of suction is to increase the magnitude of the velocity and to damp the velocity wave rapidly in the interior of the fluid.

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