

converging flow of dilute pdf

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DependenceofEntrancePressureDroponOrifice

Converging flow of dilute polymer solutions

Converging flow of dilute polymer solutions. by Balakrishnan, Chander. Publication date 1976. Topics Polymers and polymerization, Viscous flow. Collection UFRDS; univ_florida_smathers; americana. Digitizing sponsor University of Florida, ... PDF download. download 1 file ...

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One approach to bridging the two has been to study converging flow in better defined geometries; Bilgen [4] and Balakrishnan and Gordon [5] investigated flow through small orifices and showed that a much greater driving pressure is required for a very dilute solution than for water.

Flow of dilute polymer solutions through converging channels

The converging flow investigation proper is described in Part II (18). In Part I, viscosity data are presented for polymer solutions used in the converging flow experiment. These data are fitted with a new three-parameter viscosity model which fits the data better than previous three-parameter models.

Laminar converging flow of dilute polymer solutions in

The low flow rate (non-Newtonian flow) expression was of form: pressure drop=function of (flow rate, geometry, viscosity model parameters). The high flow rate (inviscid flow) expression was of form: pressure drop=function of (flow rate, geometry, fluid density).

Laminar Converging Flow of Dilute Polymer Solutions in

The behaviour of dilute polymer solutions in sink flow, viz., radial flow toward a point, was investigated experimentally and theoretically.

Planar Sink Flow of a Dilute Polymer Solution | Request PDF

A converging radial flow is used here to determine a characteristic time of PEO solutions. A converging flow was preferred to a diverging flow, since in the diverging flow the solution can be degraded at the inlet and the main phenomenon was expected to occur at this inlet. The experimental facility and the main measurements are briefly described.

Converging radial flow of dilute polymer solutions

The above picture raises the question of flow modification in dilute solutions ($c < c^*$). If the birefringent pipe, which occurs only in semi-dilute and concentrated solutions, is a result of the

Numerical simulations of the flow of dilute polymer

Haas and Durst, Viscoelastic flow of dilute polymer solutions in regularly packed beds 567 polymer solution. One obtains a model of a visco-

Viscoelastic flow of dilute polymer solutions in regularly

These converging flows may be analysed in terms of their extensional and simple shear components to calculate the relationships between volume flow rate, pressure drop, and post extrusion swelling. The

analysis can also be extended to cover the free convergence as fluid flows from a reservoir into a die.

Converging flow of polymer melts in extrusion dies

Background A. Compressible Flow, Choking, and Converging-Diverging Nozzles In all of the other laboratory experiments conducted in this course, compressibility effects are negligible.

Compressible Flow in a Converging-Diverging Nozzle

converging geometry was also measured and was found to vary approximately linearly with the flow rate. Additionally, an extensive range of numerical calculations was carried out using a finite-volume

Newtonian fluid flow through Microfabricated Hyperbolic

Abstract: The extensional flow behaviour of dilute aqueous solutions of a partially- hydrolyzed polyacrylamide and a surfactant were investigated in an extensional flow cell. The cell was designed such that fluids were subjected to steady shear before undergoing extensional motion in a converging channel.

Extensional flow resistance of dilute polyacrylamide and

The one-dimensional inviscid isentropic flow in a convergent-divergent nozzle is a classical text book problem ,which has different flow regimes depending upon the nozzle pressure ratio(NPR).The inviscid theory predicts a simple shock structure consisting of a normal shock

Flow Analysis in a Convergent-Divergent Nozzle Using CFD

The conical-channel flow of a dilute polymer solution is investigated theoretically. The stress field due to polymer additive is calculated using a new molecular model, based on the physical picture of the polymer molecules unravelling in strong flows and Batchelor's theory for the stress in a suspension of elongated particles. Good agreement is obtained with the experimental results of James & Saringer (1980).

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