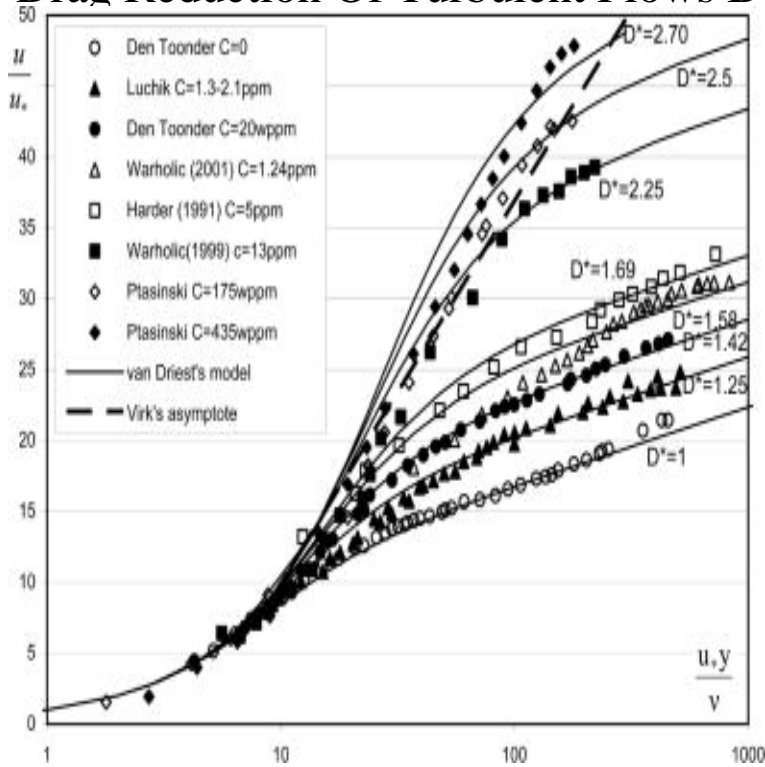


Drag Reduction Of Turbulent Flows By Additives



Of special importance is the phenomenon of 'onset', namely that the polymer additive becomes effective as a drag reducer first when the wall shear stress exceeds a threshold value, presumably because the randomly coiled molecules first have to be stretched out by the turbulent straining field before drag reduction. Turbulent Flow by Additives Guest Editors: Jinjia Wei, Yasuo Kawaguchi, and Bo Yu. Drag Reduction of Turbulent Flow by Additives. Advances in Mechanical. Drag Reduction of Turbulent Flow by Additives. Show all authors. Jinjia Wei. Jinjia Wei. 1 State Key laboratory of Multiphase Flow in Power Engineering, Xi'an . Turbulent drag reduction by polymer additives is the reduction of drag in turbulent flow below that for the solvent alone (usually by a factor of two or better), by the. The maximum drag reduction asymptote is discussed, in connection with recent measurements of turbulent fluctuations in drag reducing flows, and it is shown. Euromech 52, on drag reduction in turbulent flows due to additives, was held from August in Stockholm, Sweden, under the. Drag reduction of turbulent flows by additives. Author / Creator: Gyr, Albert / Bewersdorff, H.-W. Journal / Series: Fluid mechanics and its applications. Volume : Progress in understanding turbulent drag reduction by polymer additives has insights into both the dynamics of drag-reducing fluids and of turbulent flows. Abstract. The phenomenon of drag reduction in walled turbulent flows of polymer solutions is theoretically modeled. A new mechanistic model of a polymer. turbulent drag reduction by polymer additives has been extensively studied because of the The use of polymer additives to enhance flow in petroleum. The reduction of turbulent energy dissipation by addition of polymers is studied H W Drag Reduction of Turbulent Flow by Additives (Dordrecht: Kluwer). Drag Reduction of Turbulent Flows by Additives (Fluid Mechanics and Its Applications) by A. Gyr; H.-W. Bewersdorff and a great selection of. The mean velocity profile and friction factor in turbulent flows with polymer additives are investigated using Prandtl's mixing-length theorem. This study reveals.

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