

Guillopé, Colette; Saut, Jean-Claude

Résultats d'existence pour des fluides viscoélastiques à loi de comportement de type différentiel. (Existence results for viscoelastic fluids with a differential constitutive law).

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C. R. Acad. Sci., Paris, Sér. I 305, 489-492 (1987).

Viscoelastic fluids which obey an Oldroyd type constitutive law with retardation time are considered. For the mixed Cauchy problem with homogeneous Dirichlet conditions, the local existence of smooth solutions is shown. Then a global existence result for solutions with small data is proved.

MSC:

[76A10](#) Viscoelastic fluids

Cited in **7** Documents

Keywords:

Oldroyd type constitutive law; retardation time; mixed Cauchy problem; homogeneous Dirichlet conditions; local existence of smooth solutions; global existence