

**Rajagopal, K. R.**

**On boundary conditions for fluids of the differential type.** (English) [Zbl 0846.35107](#)

Sequeira, A. (ed.), Navier-Stokes equations and related nonlinear problems. Proceedings of the 3rd international conference, held May 21-27, 1994 in Funchal, Madeira, Portugal. Funchal: Plenum Press. 273-278 (1995).

This is a survey article highlighting the question whether the non-slip boundary conditions are sufficient to provide a well-posed problem for fluids of the differential type of complexity  $n$  which obey higher order partial differential equations than the Navier-Stokes equations. However, for simplicity the author considers mainly stationary flows with  $n = 2$ .

For the entire collection see [\[Zbl 0833.00032\]](#).

Reviewer: O.Titow (Berlin)

**MSC:**

[35Q35](#) PDEs in connection with fluid mechanics  
[76A05](#) Non-Newtonian fluids

Cited in **98** Documents

**Keywords:**

non-slip boundary conditions; well-posed problem; stationary flows