1017-76-199 **Victor Shubov*** (`victor_shubov@uml.edu`), Department of Mathematical Sciences, University of Massachusetts, Lowell, MA. *On equations of fluid suspensions.*

We consider a system of hydrodynamic equations which describe viscous incompressible fluid containing small solid particles. Existence, reqularity, and limiting behavior of solutions will be discussed. (Received February 21, 2006)