1067-35-1609 **Timur Milgrom*** (tm454@drexel.edu), Drexel University, Department of Mathematics, Korman Center 209, 3141 Chestnut St., Philadelphia, PA 19104, and **David M. Ambrose**, Drexel University, Department of Mathematics, Korman Center 275, 3141 Chestnut St., Philadelphia, PA 19104. An existence and uniqueness theorem for periodic solutions to Boussinesq equations. Preliminary report.

We consider a quasilinear partial differential equation where the nonlinearities satisfy a Lipschitz property. The boundary value problem is studied using Dirichlet, Neumann and mixed boundary conditions. A fixed point argument is used to show existence and uniqueness of a periodic solution. Finally, as an example we show existence and uniqueness of a periodic solutions. (Received September 21, 2010)