## 1086-47-1717 **Dan D. Pascali\*** (dp39@nyu.edu), 251 Mercer Street, New York, NY 10012-1185. On a sharpened form of Leray-Lions ellipticity criterion.

The well-known ellipticity criterion of Leray-Lions for solvability of the nonlinear equation in divergence form is sharpened, eliminating any coercivity hypothesis, by using a remark on the asymptotic strong monotonicity of strictly monotone mappings in a finite-dimensional space, and extending the result to non-local mappings. (Received September 24, 2012)