1014-49-75 Ram U. Verma* (verma99@msn.com), University of Akron, Division of Applied Mathematics, Akron, OH 44325. Nonlinear strongly monotone quasivariational inclusions.

Based on the notion of A-monotonicity, general class of nonlinear quasivariational inclusion problems involving strongly monotone mapping is presented, which generalizes the quasivariational inclusions on H-monotonicity, as well as on maximal monotonicity. The notion of A-monotonicity generalizes the well- known class of maximal monotone mappings, and furthermore it generalizes recently introduced class of H-monotone mappings. (Received July 19, 2005)