1077-35-1203   **Alexander Pankov*** (`alexander.pankov@morgan.edu`), Mathematics Department, Morgan State University, 1700 E Cold Spring Lane, Baltimore, MD 21251. *G-convergence approach to homogenization of nonlinear difference operators.*

We introduce the notion of G-convergence for certain natural classes of multi-dimensional difference operators and discuss basic results concerning it. As an application we consider homogenization problem for such operators. Also we point out some open problems. (Received September 17, 2011)