1025-49-51   **Hoang Dinh Nguyen*** (`ndhoang@wayne.edu`), Department of Mathematics, Wayne State University, Detroit, MI 48202, and **Boris Mordukhovich** and **Mau Nam Nguyen**. *Calculus for Clarke Subgradients and Convexified Coderivatives in Reflexive Banach Spaces.* Preliminary report.

Using recent developments and techniques in variational analysis, we establish new results on generalized differential calculus for convex-valued normal/coderivative/subgradient constructions for sets, set-valued mappings, and nonsmooth functions in reflexive Banach spaces. The results obtained particularly extend known calculus rules for Clarke generalized gradients in both finite-dimensional and infinite-dimensional settings. (Received January 11, 2007)