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Yong-Zhuo Chen* (yong@pitt.edu), Department of Mathematics, University of Pittsburgh at Bradford, Bradford, PA 16701. *Some contractive type mappings and their applications to difference equations.*

We discuss a class of discrete dynamic systems in a complete metric space (M, d) defined by mappings which satisfy various types of contractive type conditions. Their variants in ordered Banach space are investigated and applied to solve the global asymptotic stability of the equilibriums of some discrete dynamic systems. (Received March 11, 2010)