1086-39-921 **Youssef N Raffoul*** (yraffoul1@udayton.edu), yraffoul1@udayton.edu, Dayton, OH 45469-2316. *Stability in Highly Nonlinear Delay Difference Systems.* Preliminary report.

We use fixed point theory and obtain stability results concerning the nonlinear functional difference system

$$\triangle x(n) = -a(n)g(x(n-r)) \tag{1}$$

with initial function $\psi : [-r, 0] \to \mathbb{R}$, where g is continuous, locally Lipschitz , and odd, while $x - g(x)$ is nondecreasing and $g(x)$ is increasing on an interval $[0, L]$.

(Received September 16, 2012)