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Ann Brett* (ambrett@verizon.net), Department of Mathematics, University of Rhode Island, Kingston, RI, and **M. R.S. Kulenovic** (kulenm@math.uri.edu), Department of Mathematics, University of Rhode Island, Kingston, RI. *Fixed Points Results in Partially Ordered Metric Spaces*. Preliminary report.

Let X be a partially ordered set and d be a metric on X such that (X, d) is a complete metric space. Let $F : X \times X \rightarrow X$ be a map such that $F(x, y)$ is non-increasing in x for all $y \in X$, and non-increasing in y for all $x \in X$. We present a global attractivity result for a fixed point of this map. In particular, we get a global attractivity result for a unique equilibrium of a second order difference equation

$$z_{n+1} = F(z_n, z_{n-1}), \quad n = 2, 3, \dots$$

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