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Remarks on fixed points of rotative Lipschitzian mappings

Comment.Math.Univ.Carolinae 40,3 (1999) 495-510.

Abstract: Let C be a nonempty closed convex subset of a Banach space E and $T : C \rightarrow C$ a k -Lipschitzian rotative mapping, i.e. such that $\|Tx - Ty\| \leq k \cdot \|x - y\|$ and $\|T^n x - x\| \leq a \cdot \|x - Tx\|$ for some real k, a and an integer $n > a$. The paper concerns the existence of a fixed point of T in p -uniformly convex Banach spaces, depending on k, a and $n = 2, 3$.

Keywords: rotative mappings, fixed points

AMS Subject Classification: 47H09, 47H10