

KRASNOSEL'SKII-TYPE FIXED-SET RESULTS UNDER WEAK TOPOLOGY CIRCUMSTANCES AND APPLICATIONS

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Abstract. In this paper, using the technique of measure of weak noncompactness, we prove some fixed set results of Krasnosel'skii type for the sum of two multivalued operators in the setting of weak topology, without the assumption of the convexity of their common domain. Applications to the theory of self-similarity are also given.

Key Words and Phrases: Krasnosel'skii theorem, fixed set, weak topology, self-similarity theory.

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