FIXED POINT THEOREMS FOR MULTIVALUED NONSELF KANNAN-BERINDE CONTRACTION MAPPINGS IN COMPLETE METRIC SPACES

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Abstract. In this paper, a new type of multivalued nonself Kannan-Berinde contraction mappings in metric spaces is introduced and studied. We establish the existence of fixed points of this type of mappings on a complete convex metric space. Our main results extend and generalize many well-known fixed point theorems of many other authors in the literature. We also give an example to illustrate our main results.

Key Words and Phrases: Fixed point, nonself multivalued mappings, Kannan-Berinde contraction, Rothe’s boundary condition.

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