ON MULTIVALUED P-CONTRACTIVE MAPPINGS THAT BELONGS TO CLASS OF WEAKLY PICARD OPERATORS

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Abstract. In the present paper, by introducing the P-contractivity of a multivalued mapping, we give a new class of multivalued weakly Picard operators on complete metric spaces and show that the class of multivalued contractions is a proper subset of this new class. We also give a nontrivial example showing this fact.

Key Words and Phrases: Fixed point, multivalued mapping, weakly Picard operator.

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