AN EXTENSION TO MULTIFUNCTIONS
OF THE KEELER-MEIR'S FIXED POINT THEOREM

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Abstract. In this paper we prove the existence of fixed points for multifunctions verifying
the property of weakly uniformly strict p-contraction. Then, as a corollary, we deduce a
result on the existence of contractive fixed points for single-valued functions not necessarily
with complete graph, which strictly contains a result due to Keeler and Meir.

Key Words and Phrases: orbit, iterate function, function with complete graph, contractive fixed point, multifunction, weakly uniformly strict \( p \)-contraction.

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