

**Chugh, Renu; Kadian, Tamanna; Rani, Anju; Rhoades, B. E.**

**Property P in G-metric spaces.** (English) Zbl 1203.54037

Fixed Point Theory Appl. 2010, Article ID 401684, 12 p. (2010).

The authors establish two fixed point theorems for some contractive-type maps on complete  $G$ -metric spaces. It is also shown that if  $(X, G)$  is a complete  $G$ -metric space and  $T$  is a self-map of  $X$  satisfying the hypotheses of any of the two theorems then the maps  $F^n$  have the same fixed point set, for all  $n \in \mathbb{N}$ .

Reviewer: [Mircea Balaj \(Oradea\)](#)

**MSC:**

[54H25](#) Fixed-point and coincidence theorems (topological aspects)

[47H10](#) Fixed-point theorems

Cited in **51** Documents

**Keywords:**

$G$ -metric space; fixed point; property  $P$

**Full Text:** [DOI](#) [EuDML](#)

**References:**

[1] [doi:10.1155/2008/189870](#) · [Zbl 1148.54336](#) · [doi:10.1155/2008/189870](#)

[2] [doi:10.1155/2009/917175](#) · [Zbl 1179.54067](#) · [doi:10.1155/2009/917175](#)

[3] [doi:10.1016/j.amc.2009.04.085](#) · [Zbl 1185.54037](#) · [doi:10.1016/j.amc.2009.04.085](#)

This reference list is based on information provided by the publisher or from digital mathematics libraries. Its items are heuristically matched to zbMATH identifiers and may contain data conversion errors. It attempts to reflect the references listed in the original paper as accurately as possible without claiming the completeness or perfect precision of the matching.