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Coupled fixed point theorems for nonlinear contractions in partially ordered G -metric spaces. (English) [Zbl 1237.54043](#)
Math. Comput. Modelling 54, No. 9-10, 2443-2450 (2011).

Summary: We prove coupled coincidence and coupled common fixed point theorems for mixed g -monotone mappings satisfying nonlinear contraction conditions in partially ordered G -metric spaces. The theorems presented are generalizations of the very recent results of *B. S. Choudhury* and *P. Maity* [Math. Comput. Modelling 54, No. 1–2, 73–79 (2011; [Zbl 1225.54016](#))].

MSC:

- [54H25](#) Fixed-point and coincidence theorems (topological aspects)
- [54F05](#) Linearly ordered topological spaces, generalized ordered spaces, and partially ordered spaces
- [54E40](#) Special maps on metric spaces

Cited in **1** Review
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Keywords:

G -metric space; ordered set; coupled coincidence point; coupled common fixed point; mixed monotone property

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