

ON ψ -CONTRACTIONS AND COMMON FIXED POINT RESULTS IN PROBABILISTIC METRIC SPACES

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Abstract. In this paper, by weakening the conditions on the gauge function ψ , some new fixed point and common fixed point (common coupled fixed point, common tripled fixed point) theorems for nonlinear mappings with a gauge function ψ in Menger probabilistic metric spaces are established. An example is given to illustrate our theory.

Key Words and Phrases: Coupled fixed point, fixed point, metric space, probabilistic φ -contractions, gauge function.

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