

α - ψ - φ CONTRACTIVE MAPPINGS IN PARTIALLY ORDERED
PARTIAL b -METRIC SPACES

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Abstract

In this paper we consider the concept of $\alpha - \psi - \varphi$ contractive self mappings in a complete partially ordered partial b - metric space. We study the existence of fixed points for such self mappings in complete partially ordered partial b - metric spaces controlled by a generalized contractive type condition and obtain some fixed point results of Aiman Mukheimer [18] and Mustafa [19] in complete partially ordered partial b - metric spaces as corollaries. Supporting example is also provided.

Key Words : *Fixed point theorems, $\alpha - \psi - \varphi$ contractive mappings, b -metric, Partial b -metric, Ordered partial b -metric space, Partially ordered partial b -metric space, Altering distance functions.*

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