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FIXED POINT ON A CLOSED BALL IN ORDERED DISLOCATED QUASI METRIC SPACES

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Abstract. Sufficient conditions for the existence of fixed point for mappings satisfying locally contractive conditions on a closed ball in an ordered left K-sequentially as well as right K-sequentially complete dislocated quasi metric space have been obtained. The notion of dominated mappings is applied to approximate the unique solution to non linear functional equations. Our results improve several well known existing results.
Key Words and Phrases: Fixed point, Kannan mapping, dominated mapping, left K-sequentially complete dislocated quasi metric space.
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