

ON SOME SPECIFIC NON-LINEAR ORDINARY DIFFERENCE EQUATIONS

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ABSTRACT. It is proved that some specific non-linear ordinary difference equations, which appear in various applications, have a unique solution in the Banach space l_1 . Moreover a bound of the solutions and a region of attraction of their equilibrium points are found. The obtained results improve some previous known results.

AMS SUBJECT CLASSIFICATION. 32H02, 39A10, 39A11

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