

SOME RESULTS ON MIXED FRACTIONAL INTEGRODIFFERENTIAL EQUATION IN MATRIX MB-SPACE

V. V. KHARAT AND ANAND R. RESHIMKAR*

Abstract. In this article, we study the best approximation of nonlinear mixed fractional integrodifferential equation with Caputo fractional derivative by using a class of stochastic matrix control functions. Next, using the fixed point method, we study the Ulam-Hyers and Ulam-Hyers-Rassias stability of the non-linear fractional integrodifferential equation of the mixed type in MB-space.

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