# APPLICATION OF PETRYSHYN'S FIXED POINT THEOREM OF EXISTENCE RESULT FOR NON–LINEAR 2D VOLTERRA FUNCTIONAL INTEGRAL EQUATIONS

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*Abstract.* In this paper, the existence of result for 2DFIEs (Two Dimensional Functional integral equations) is considered. The main techniques in this discussion are Petryshyn's fixed point theorem with an MNC(Measure of non-compactness), which carries special cases a lot of FIEs. Finally, we recall some distinct cases and examples to prove the applicability of our study.

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