

## ON INTEGRAL SOLUTION OF FRACTIONAL VOLTERRA INTEGRO-DIFFERENTIAL EQUATION WITH HILLE-YOSIDA OPERATOR

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## Abstract

This paper is concerned with the fractional Volterra integro-differential equation with Hille-Yosida operator in Banach spaces. The existence and uniqueness of integral solution of the equation are obtained by using fractional calculus and fixed point theorem.

**Keywords and phrases:** Hille-Yosida operator, Volterra integro-differential equation, fractional calculus, fixed point theorem.

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