

# **Conformable Fractional Laplace Transform and Fractional Ordinary Differential Equations**

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## **Abstract**

Often, standard approaches, like some methods of solving ordinary differential equations, cannot be used to obtain a general solution to a variety of equations. So, in order to solve any fractional differential equations, we employ other correct solutions by applying the appropriate Laplace transform. Finding a model solution for fractional differential equations using fractional Laplace and for a system of fractional differential equations using fractional Laplace are the goals of this thesis.

**Keywords:** Conformable Fractional Derivative, Conformable Fractional Integral, Laplace Transform, Fractional Differential equation, Conformable Fractional Laplace Transform.

