

REPRESENTATION OF SOLUTIONS OF LINEAR INHOMOGENEOUS CAPUTO FRACTIONAL DIFFERENTIAL EQUATION WITH CONTINUOUS VARIABLE COEFFICIENT BY GREEN FUNCTION

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Abstract. In this paper, the representation of solution to linear inhomogeneous Caputo fractional differential equation with continuous variable coefficient has been considered by using Green function. We have proved that the solution of linear inhomogeneous equations with homogeneous initial condition can be represented by using classical Green function, generalized Green function and modified Green function.

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