ANALYTICAL SOLUTION FOR THE GENERALIZED TIME–FRACTIONAL TELEGRAPH EQUATION

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Abstract. We discuss and derive the analytical solution for the generalized time-fractional telegraph equation. These problems are solved by taking the Laplace and Fourier transforms in variable t and x respectively. Here we use Green function also to derive the solution of the given differential equation.


Keywords and phrases: Green function, M function (of the Wright type), Mittag-Leffler function, Laplace transform, Fourier transform method, Fox H-function.

REFERENCES


