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APPLICATIONS OF THE LAPLACE-FOURIER INTEGRAL TRANSFORM

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Abstract

In this paper we discuss the Laplace-Fourier Integral Transform for solving boundary and initial value problems. We investigate the important results namely inversion, convolution, parsevals theorems and related properties are also discussed. The solution of the one dimensional wave and Laplace equation in cartesian form are also given. The graphical concept is represented by assigning different values to the parameter by using Matlab, which gives a brighter view of applications of the Laplace-Fourier Integral Transform.

Key Words : *Laplace Transform, Hankel transform, Double Laplace transform, Matlab.*

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