APPLICATION OF PSEUDO ANALYSIS IN PARTIAL DIFFERENTIAL EQUATIONS

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Laplace's transformation of function f,

$$(Lf)(z) = \int_0^\infty e^{-zx} f(x)dx$$

has very important role in different mathematical theories. Lot of problems in partial differential equations theory can be transformed by Laplace's transformation to simpler algebraic equations.

For that purpose we use pseudo-convolutions and pseudo-Laplace's transformations, that we apply to some partial differential equation. The results we rely on are from [1], [2], [3], [4], [5], [6] and [7].

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