

Explicit Solutions Of Some Fractionalpartial Differential

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Explicit Solutions of Some Fractional Partial Differential Equations Via stable subordinators.pdf
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(PDF) Explicit Solutions of Some Fractional Partial ...

4 Explicit solutions of some FPDEs via subordinators Definition 2.1. Let f be a real function. The fractional derivative of order α of the function f in Riemann-Liouville sense, when it exists, is given by $D_x^\alpha f(x) = \frac{1}{\Gamma(m-\alpha)} \int_{-\infty}^x (x-t)^{m-\alpha-1} f(t) dt$, $m-1 \leq \alpha < m$, (2.1) where $m = [\alpha] + 1$, and $[\alpha]$ is the integer part of α and Γ is the Gamma function.

EXPLICIT SOLUTIONS OF SOME FRACTIONAL PARTIAL ... - CiteSeerX

The fundamental solutions of the fractional equations are given as functionals of stable subordinators. The functions used generalize the functions given by the Airy integral of Sirovich (1971). As a consequence of this representation, an explicit form is given to the density of the $3/2$ -stable law and to the density of escaping island vicinity in vortex medium.

Explicit solutions of some fractional partial differential ...

The underlying analysis presented here is based chiefly upon some of the general theorems on (explicit) particular solutions of a certain family of linear ordinary fractional differential integral ...

Explicit solutions of some linear ordinary and partial ...

Some group-invariant solutions, the complete solutions were obtained, respectively. Leo et al. provided a general theoretical framework for extending the classical Lie theory to partial equations with fractional order based on the fundamental Riemann-Liouville fractional operator and Lie theory.

Symmetry properties and explicit solutions of some ...

The main object of the present paper is to show how readily several recent contributions on this subject, involving second- as well as third-order linear ordinary and partial differential equations, can be obtained (in a unified manner) by appropriately applying some general theorems on (explicit) particular solutions of a certain family of linear ordinary and partial fractional differential integral equations.

Explicit solutions of some linear ordinary and partial ...

CiteSeerX - Document Details (Isaac Council, Lee Giles, Pradeep Teregowda): The aim of this work is to represent the solutions of one-dimensional fractional partial differential equations (FPDEs) of order $(\alpha \in \mathbb{R}^+ \setminus \mathbb{N})$ in both quasi-probabilistic and probabilistic ways. The canonical processes used are generalizations of stable Lévy processes.

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At last, some exact and explicit solutions of the equations are presented. These solutions include generalized hyperbolic function solutions, generalized trigonometric function solutions and rational function solutions and so on. These solutions may be useful to further investigate the complicated nonlinear physical phenomena.

Symmetry properties and explicit solutions of the ...

Abstract. In the sense of point symmetry, all of the vector fields and the symmetry reductions of the fractional fifth-order KdV equation are obtained. At last, by virtue of the sub-equation method, some exact solutions to the fractional fifth-order KdV equation are provided.

Lie Symmetry Analysis and Explicit Solutions of the Time ...

2 Answers. Explicit solution is a solution where the dependent variable can be separated. For example, is explicit because if y is dependent, I can rewrite it as x and y has been separated. Implicit is when the dependent variable cannot be separated like $x^2 + y^2 = 1$.

difference between implicit and explicit solutions?

An explicit solution would be $y=f(x)$, i.e. y is expressed in terms of x only. An implicit solution is when you have $f(x,y)=g(x,y)$ which means that y and x are mixed together. y is not expressed in terms of x only. You can have x and y on both sides of...

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