

APPROXIMATE SOLUTION OF THE NON-LINEAR DIFFUSION EQUATION OF MULTIPLE ORDERS

by

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In this paper, fractional diffusion equation of multiple orders is approximately solved. The equation is given in the equivalent integral form. The Adomian polynomial is adopted and analytical solutions are obtained. The result contains two parameters that can have more space for fitting the experiment data.

Key words: new Adomian polynomials, approximate solution, fractional calculus, non-linear diffusion equation

Introduction

Fractional derivative has a feature of non-locality property. Besides, it also holds other analytical properties such as the Leibniz integral law, etc. Particularly, for the diffusion issue, the procedure often exhibits randomness and history dependence. As a result, take the normal non-linear diffusion equation for example:

$$\frac{\partial u}{\partial t} = D \frac{\partial^2 u}{\partial x^2} + g(u) \quad (1)$$

where D is the diffusion coefficient and $g(u)$ is a non-linear term with respect to u .

Considering the memory effects, it can be modified:

$${}_0^C D_t^\alpha u = D \frac{\partial^2 u}{\partial x^2} + g(u), \quad 0 < \alpha < 1 \quad (2)$$

where ${}_0^C D_t^\alpha$ is the left Caputo derivative [1], and it is defined:

$${}_0^C D_t^\alpha u = \frac{1}{\Gamma(1-\alpha)} \int_0^t \frac{1}{(t-\tau)^\alpha} u'(\tau) d\tau, \quad 0 < \alpha < 1, \quad 0 < t \quad (3)$$

For $\alpha \neq 1$, one can note the operator has memory effect due to the kernel function $1/(t-\tau)^\alpha$.

In this paper, we consider the following fractional diffusion equation:

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