

Solving some partial q -differential equations using transformation methods

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Abstract In this paper, we introduce the concepts of transformed functions and q -difference inverse transforms. Then, we apply them to solve some partial q -difference equations. Finally, we provide four examples to show how we can benefit from the obtained results.

1 Introduction

The subject of q -calculus started in the nineteenth century in intense works by Jackson [20], Carmichael [11], Mason [23], Trjitzinsky [29], Adams [1], Mason [23], and Trjitzinsky [29]. Recently, q -calculus has been a goal of some recent studies such as [4, 7, 9].

The q -difference has a lot of applications in different fields of mathematics such as number theory, statistical physics [24], fractal geometry [14],[15], quantum mechanics, orthogonal polynomials [19] and other sciences including theory of relativity [5], mechanics and quantum theory.

In the last years, partial q -difference equations are generally studied by various methods of separation of variables, by the techniques of Lie symmetry, using q -integral transforms [3, 16, 17, 10, 22].

In this paper, we explain the solution of the partial q -difference equations using reduced transformation method.

First, let us recall some basic concepts of q -calculus mentioned in ([5, 6, 26, 12, 13, 18, 20, 21, 28]). The shifted factorial $(r; q)_n$ is defined by:

$$\begin{aligned}(r; q)_0 &= 1, \\(r; q)_n &= (1-r)(1-qr)(1-q^2r)(1-q^3r)\dots(1-q^{n-1}r) \\ &= \prod_{k=0}^{n-1} (1-q^k r), \quad n \in \mathbb{N}, 0 < q < 1, \text{ and } r \in \mathbb{C}.\end{aligned}$$

A complex number r is defined by:

$$\begin{aligned}[r]_q &= 1 + q + q^2 + \dots + q^{r-1} \\ &= \frac{1-q^r}{1-q}, \quad q \in \mathbb{C} - \{1\}; r \in \mathbb{C}\end{aligned}$$

and the factorial function is

$$\begin{aligned}[r]_q! &= [1]_q [2]_q [3]_q \dots [r]_q \\ &= \prod_{k=1}^r [k]_q, \quad q \neq 1; k \in \mathbb{N}, 0 \leq q \leq 1.\end{aligned}$$

The q -binomial coefficient $\begin{bmatrix} r \\ k \end{bmatrix}_q$ is defined by:

$$\begin{bmatrix} r \\ k \end{bmatrix}_q = \frac{[r]_q!}{[r-k]_q! [k]_q!}, \quad r = 0, 1, 2, \dots, k.$$

Transformation Methods For Partial Differential Equations

JG Myers



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