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q Fractional calculus for Rubin s q difference operator

In this paper we introduce a fractional q-integral operator and derivative as a generalization of Rubin s q-difference operator. We also reformulate the definition of the q 2

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This chapter includes proofs of the existence and uniqueness of the solutions of first order systems of q-difference equations in a neighborhood of a point a, $\wedge(a \geq 0)$.

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q Fractional Calculus and Equations Mahmoud H Annaby

This nine-chapter monograph introduces a rigorous investigation of q-difference operators in standard and fractional settings. It starts with elementary calculus of q-differences and integration of Jackson s type before turning to q-difference equations.

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New applications of the variational iteration method

The non-classical calculi such as q-calculus, fractional calculus and q-fractional calculus have been hot topics in both applied and pure sciences. Then some new linear and nonlinear models have appeared. This study mainly concentrates on the analytical aspects, and the variational iteration method is extended in a new way to solve an initial

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Preliminaries -- q-Difference equations -- q-Sturm-Liouville problems -- Riemann-Liouville q-fractional calculi -- Other q-fractional calculi -- Fractional q-Leibniz rule and applications -- q-Mittag-Leffler functions -- Fractional q-difference equations -- q-Integral transforms for solving fractional q-difference equations.

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Several Results of Fractional Differential and Integral

Fractional Calculus in $D_0(\mathbb{R}^+)$ In order to investigate fractional integral and differential equations in the generalized sense, we briefly introduce the following basic concepts, with several interesting examples of solving Abel s

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type before turning to q-difference equations.

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Fractional calculus Wikipedia

Fractional calculus is a branch of mathematical analysis that studies the several different possibilities of defining real number powers or complex number powers of the differentiation operator $D() = ()$, and of the integration operator $J = ()$, and developing a calculus for such operators generalizing the classical one. In this context, the term powers refers to iterative application of a

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Fractional Derivatives and Fractional Mechanics

Fractional Derivatives and Fractional Mechanics Danny Vance June 2, 2014 Abstract This paper provides a basic introduction to fractional calculus, a branch of mathematical analysis that studies the possibility of taking any real power of the differentiation operator. We introduce two different definitions of the fractional derivative, namely the Riemann-Liouville and Caputo forms, and examine

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A method for solving differential equations of q

In this paper, using the theory of q-fractional calculus, we deal with the q-Mittag-Leffler stability of q-fractional differential systems, and based on it, we analyze the direct Lyapunov method

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FRACTIONAL CALCULUS

228 Fractional Calculus: Integral and Differential Equations of Fractional Order We now observe that an alternative definition of fractional derivative, originally introduced by Caputo [19], [27] in the late sixties and adopted by Ca-

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Fractional calculus is a collection of relatively little-known mathematical results concerning generalizations of differentiation and integration to noninteger orders.

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Fractional q Difference Equations SpringerLink

Abstract. As in the classical theory of ordinary fractional differential equations, q-difference equations of fractional order are divided into linear, nonlinear, homogeneous, and inhomogeneous equations with constant and variable coefficients.

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