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The discrete fractional calculus deals with the study of fractional order sums and differences and their diverse applications (,,,,). As continuous fractional calculus that has widespread applications in different fields of science and engineering, applications of discrete fractional calculus will be ideal, too.

AN APPLICATION OF DISCRETE FRACTIONAL CALCULUS IN

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THE THEORY OF DISCRETE FRACTIONAL CALCULUS:

DEVELOPMENT AND APPLICATION Michael Holm, Ph.D.

University of Nebraska, 2011 Adviser: Lynn Erbe and Allan

Peterson The author's purpose in this dissertation is to introduce, develop and apply the tools of discrete fractional calculus to the arena of fractional difference equations. To

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The Theory of Discrete Fractional Calculus: Development ...
Conference: Conference on Modern Fractional Calculus and
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On Chaos in Two-Dimensional Discrete Fractional Maps ...
2. fractional calculus aids significantly in the fields of
viscoelasticity, capacitor theory, electrical circuits, electro-
analytical chemistry, neurology, diffusion, control theory,
and statistics. The theory of fractional calculus for functions
of the natural numbers, however, is far less developed.

The Theory of Discrete Fractional Calculus: Development ...

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Recently, discrete fractional calculus with applications [[20], [21], [22], [23], [24], [25], [26]] was proposed. It was defined on an isolated time scale. It can avoid cumulate errors of continuous methods when the defined domain is a discrete set. It also becomes possible for long-term calculation.

Fractional discrete-time diffusion equation with ...
Fractional derivatives with memory effects have been widely used in image processing. This study investigates a discrete analogy of tempered fractional calculus on an isolated time scale and provides a new kind of discrete fractional calculus. Some useful properties and discrete Mittag–Leffler functions are derived.

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Discrete tempered fractional calculus for new chaotic ...

The autodidact Oliver Heaviside introduced the practical use of fractional differential operators in electrical transmission line analysis circa 1890. The theory and applications of fractional calculus expanded greatly over the 19th and 20th centuries, and numerous contributors have given definitions for fractional derivatives and integrals.

Fractional calculus - Wikipedia

Generally speaking, fractional-order calculus can be used to better describe the systems with memory effect, and it is widely used in different fields including quantum mechanics, electromagnetic oscillations, control, and material mechanics. 14–19 14. H. Rudolf, Applications of

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Fractional Calculus in Physics (World Scientific, 2000). 15.

Modeling of discrete fractmemristor and its application ...
For an equation with the fractional calculus operator, the equivalent discrete integral one is where. The following theorem is used to analyze the stabilization and synchronization for fractional discrete maps. For the proof of the theorem, please refer to the literature. Theorem 1.

A Fractional-Order Discrete Noninvertible Map of Cubic ...
The author's purpose in this dissertation is to introduce, develop and apply the tools of discrete fractional calculus to the arena of fractional difference equations. To this end, we develop the Fractional Composition Rules and the Fractional

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Laplace Transform Method to solve a linear, fractional initial value problem in Chapters 2 and 3. We then apply fixed point strategies of Krasnosel'skii and Banach to study a nonlinear, fractional boundary value problem in Chapter 4.

"The Theory of Discrete Fractional Calculus: Development ...
IN DISCRETE FRACTIONAL CALCULUS FERHAN M. ATICI AND
PAUL W. ELOE (Communicated by Jane M. Hawkins)

Abstract. This paper is devoted to the study of discrete fractional calculus; the particular goal is to define and solve well-defined discrete fractional difference equations. For this purpose we first carefully develop the commuta-

INITIAL VALUE PROBLEMS IN DISCRETE FRACTIONAL

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He is currently researching the field of discrete fractional calculus, a new and interesting area of mathematics with applications in science and engineering, and is interested in finding interesting connections between abstract mathematical theory and practical applications. [click here to return to the symposium home page](#) Sponsored by Phillips 66

Sturm-Liouville Problems in Discrete Nabla Fractional Calculus

Fractional calculus has played an important role in the study of the real world nonlinear fractional differential equations that arise from the modeling of nonlinear phenomena,

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The corresponding discrete counter part, fractional order difference equations (FODEs), have appeared as a new research area for mathematicians and scientists. The study of discrete fractional calculus was initiated by Miller and Ross [26] and then developed by several other researchers [27 – 41].

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