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Applications In  
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fractional calculus definition,  
history importance and  
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Language for Explaining Complex  
Crowd Behavior *Mamikon Gulian*

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(with some applications)

Generalized Fractional Calculus

and the Application to Oscillator



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and Applications of Special*

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*Calculus Applications In*

*Half integral of  $x^3$  | Half order*

*Integration | Fractional*

*Integration | Fractional Calculus*

*Imaginary derivative of  $x$*

*Fractional Differential Equation |*

*Fractional calculus What Is The*

*Factorial Of 1/2? SURPRISING*

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*$(1/2)! = (\sqrt{\pi})/2$  Fractional order derivative of a function \u0026amp; fractional numbers' factorial.*

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Half Derivative Definition

~~Sequences 10: Fractals and~~

~~Chaos~~ Fractional Derivatives and Integrals Definition (FC02) *The Power Rule for Fractional*

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~~Derivatives~~  ~~$\pi$ -th derivative of~~

~~$x^\pi$~~  **(FC01) An Introduction to**

**Fractional Calculus** Fractional

Calculus an Introduction through

the Laplace Transform Some tools

to study random fractional

differential equations and

applications Nonlinear fractional

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parabolic equations in bounded domains *Theory and Applications of Special Functions and Fractional Calculus* Advanced Applications of Fractional Differential Operators to Science and Technology *Applications of analysis to fractional differential*

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In the second part, selected applications of the discrete fractional calculus in the discrete system control theory are

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presented. In the discrete system identification, analysis and synthesis, one can consider integer or fractional models based on the fractional-order difference equations. The third part of the book is devoted to digital image ...

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The discrete fractional calculus

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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

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ideal, too. Applications In

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Calculus and Its Applications to.

Tumor Growth. Sevgi Sengul.

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and Its Applications to Tumor  
...**

Numerical computations are performed by means of basic definitions and graphs are provided for different fractional

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and development in qualitative  
theory of Discrete...

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Definitions and Applications**

In the second part, selected  
applications of the discrete

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fractional calculus in the discrete system control theory are presented. In the discrete system identification, analysis and synthesis, one can consider integer or fractional models based on the fractional-order difference equations.

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THE THEORY OF DISCRETE

FRACTIONAL CALCULUS:

DEVELOPMENT AND APPLICATION

Michael Holm, Ph.D. University of  
Nebraska, 2011 Adviser: Lynn



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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  
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Its Applications; At: Biruni  
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December 4-6, 2020

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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,

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Calculus, 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:**

*Page 28/47*

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## Discrete Fractional

### **Development .. Applications In**

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

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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

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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

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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



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analysis circa 1890. The theory and applications of fractional calculus expanded greatly over the 19 th and 20 th centuries, and numerous contributors have given definitions for fractional derivatives and integrals.

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## **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,

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Calculus Applications in  
electromagnetic oscillations,  
control, and material mechanics.  
14–19 14. H. Rudolf, Applications  
of Fractional Calculus in Physics  
(World Scientific, 2000). 15.

**Modeling of discrete  
fractmemristor and its**

*Page 35/47*

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**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

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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

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discrete fractional calculus to the arena of fractional difference equations. To this end, we develop the Fractional Composition Rules and the Fractional Laplace Transform Method to solve a linear, fractional initial value problem in

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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**

*Page 39/47*

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**Fractional Calculus: Applications In  
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



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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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**CALCULUS** Applications In

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

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between abstract mathematical theory and practical applications.

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## **Sturm-Liouville Problems in Discrete Nabla Fractional**

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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, optimal control of complex systems and other

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**Special Issue "Fixed Point  
Theory and Fractional**

**Calculus ...**

The corresponding discrete  
counter part, fractional order  
difference equations (FODEs),

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Calculus has 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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