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definition, history

importance and

application

Fractional Calculus: A

New Language for

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Physics Functional

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~~Step by Step~~

Fractional Calculus
and Fractal Dynamics
(with some
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Generalized
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Equations - Yufeng
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Moeen Khaleghi

Theory and

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Fractional Calculus

Half integral of x^3 |

Half order Integration

| Fractional

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Integration |

Fractional Calculus

Imaginary derivative
of x Fractional

Differential Equation

| Fractional calculus

What Is The Factorial
Of $1/2$? SURPRISING

$(1/2)! = (\quad)/2$

Fractional order
derivative of a

function /u0026

fractional numbers'

factorial.

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Half Derivative

Definition Sequences

10: Fractals and

Chaos Fractional

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(FC02) The Power

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Derivatives ρ -th

derivative of x^ρ

(FC01) An

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Nonlinear fractional
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selected applications of the discrete 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

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of fractional order
sums and differences
and their diverse
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to. Tumor Growth.

Sevgi Sengul.

Western Kentucky

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computations are performed by means

of basic definitions

and graphs are

provided for different fractional orders. Also

some applications

and development in qualitative theory of

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Calculus: Definitions
and Applications

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of the discrete
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control theory are
presented. In the
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analysis and
synthesis, one can
consider integer or

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Fractional models
based on the
fractional-order
difference equations.

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APPLICATION Michael

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Holm, Ph.D.

University of
Nebraska, 2011

Adviser: Lynn Erbe
and Allan Peterson

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purpose in this
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introduce, develop
and apply the tools of
discrete fractional
calculus to the arena
of fractional
di/erence

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Equations. To

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Istanbul, Turkey,

December 4-6, 2020

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On Chaos in Two-
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2. fractional calculus
aids significantly in
the fields of
viscoelasticity,
capacitor theory,
electrical circuits,
electro-analytical
chemistry, neurology,
diffusion, control
theory, and statistics.

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The theory of fractional calculus for functions of the natural numbers, however, is far less developed.

The Theory of Discrete Fractional Calculus:

Development ...

Recently, discrete fractional calculus with applications

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[[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.

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kind of discrete

fractional calculus.

Some useful

properties and

discrete

Mittag–Leffler

functions are derived.

Discrete tempered

fractional calculus for

new chaotic ...

The autodidact Oliver

Heaviside introduced

the practical use of

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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

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and integrals.

Calculus

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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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
application ...

For an equation with

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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.

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A Fractional-Order
Discrete

Noninvertible Map of
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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

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develop the

Fractional

Composition Rules

and the Fractional

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

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boundary value
problem in Chapter 4.

"The Theory of
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CALCULUS FERHAN

M. ATICI AND PAUL

W. ELOE

(Communicated by

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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-

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INITIAL VALUE

PROBLEMS IN

DISCRETE

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CALCULUS

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

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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, optimal control of complex systems and other

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Calculus

Special Issue "Fixed
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The corresponding
discrete counter part,
fractional order
difference equations

(FODEs), have
appeared as a new
research area for
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of discrete fractional calculus was initiated by Miller and Ross [26] and then developed by several other researchers [27 – 41].

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