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**real world**

**applications of**

**fractional ...**

Some applications of fractional calculus

include fluid flow,

rheology, dynamical

processes in self-

similar and porous

structures, electrical

networks, probability

and statistics, control

theory of dynamical

systems, chemical

physics, optics, and

signal processing,

economics, and so on.

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**Discrete Fractional  
Calculus: Definitions  
and Applications**

An application of the discrete fractional calculus starts in Chapter 6 where the non-linear fractional-order dynamical system linearisation procedure is presented. The linearised system descriptions by: the fractional-order difference equation, the

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state-space equations,

discrete fractional

transfer function and

polynomial like matrix

are given. And

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**Fractional calculus**

Series In

**and its applications**

Recently, the discrete

fractional calculus

(DFC) is receiving

attention due to its

potential applications

in the mathematical

modelling of real-world

phenomena with

memory effects. In the

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present paper, the chaotic behaviour of fractional difference equations for the tent map, Gauss map and  $2x \pmod{1}$  map are studied numerically.

**The Theory of Discrete Fractional Calculus:**

**Development ...**

The main subject of the monograph is the fractional calculus in the discrete version.

The volume is divided



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into three main parts.

Part one contains a

theoretical introduction

to the classical and

fractional-order

discrete calculus where

the fundamental role is

played by the

backward difference

and sum.

## **Discrete Fractional Calculus**

### **Applications In**

Discrete Fractional

Calculus: Applications

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in Control and Image  
Processing (Computer  
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Ostalczyk] on

Amazon.com. \*FREE\*

shipping on qualifying  
offers. The main

subject of the

monograph is the

fractional calculus in  
the discrete version.

The volume is divided  
into three main parts.

Part one contains a  
theoretical introduction  
to the classical and  
fractional-order

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discrete calculus ...

Calculus

**Discrete fractional  
Calculus:**

**Applications in**

**Control and ...**

DISCRETE FRACTIONAL

SERIES IN

CALCULUS AND ITS

APPLICATIONS TO

TUMOR GROWTH A

Thesis Presented to

The Faculty of the

Department of

Mathematics and

Computer Science

Western Kentucky

University, Bowling

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Green, Kentucky In  
Partial Fulfillment Of  
the Requirements for  
the Degree Master of  
Science By Sevgi  
Sengul May 2010

**Fractional calculus -  
Wikipedia**

Fractional Calculus (FC)  
goes back to the  
beginning of the theory  
of differential calculus.  
Nevertheless, the  
application of FC just  
emerged in the last  
two decades, due to

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the progress in the  
area of chaos that

revealed subtle  
relationships with the  
FC concepts. In the

field of dynamical  
systems theory some  
work has been carried

out but the proposed  
models and algorithms  
are still in a ...

**9789814725668:**

**Discrete Fractional**

**Calculus:**

**Applications ...**

Discrete fractional

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calculus is an

important emerging

branch of analysis [35,

28, 30,13,14,39,9],

which has been very

useful in the analysis of

discrete systems with

non-local effects. The

...

## **Discrete Fractional Calculus | Series in Computer Vision**

One of the most

popular research

interests of science

and engineering is the

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Fractional

fractional calculus  
theory in recent times.

Discrete fractional  
calculus (DFC) has also  
an important position  
in the ...

Image Processing

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Application of Vision

**Difference and  
Fractional ...**

The layout of the  
article is arranged as  
below. Some  
preliminaries of  
discrete fractional  
calculus and fractional

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difference system are listed in Section 2. The

synchronization

conditions for FDTNNs

without time delays

and with time delays

are derived

respectively in Section

3.

### **Fractional discrete-time diffusion equation with ...**

Fractional calculus is a branch of

mathematical analysis

that studies the several



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different possibilities of  
defining real number

powers or complex  
number powers of the

differentiation operator

$D = (\cdot)$ , and of the

integration operator  $J =$

$\int (\cdot)$ , 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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**Calculus and Its**

**Applications to**

**Tumor ...**

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DEVELOPMENT AND

APPLICATION OF

DIFFERENCE AND

FRACTIONAL

CALCULUS ON

DISCRETE TIME SCALES

Tanner J. Auch, Ph.D.

University of Nebraska,

2013 Advisers: Lynn

Erbe and Allan

Peterson The purpose

of this dissertation is to

develop and apply

results of both discrete

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calculus and discrete  
fractional calculus to  
further develop results  
on various ...

Control And

**Discrete Fractional  
Calculus:  
Applications in  
Control and ...**

THE THEORY OF  
DISCRETE FRACTIONAL  
CALCULUS:

DEVELOPMENT AND  
APPLICATION Michael  
Holm, Ph.D. University  
of Nebraska, 2011

Adviser: Lynn Erbe and  
*Page 20/29*

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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

## **Synchronization for fractional-order discrete-time neural ...**

...

This study provides some basics of fuzzy discrete fractional

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calculus as well as applications to fuzzy fractional discrete-time equations. With theories of  $r$ -cut set, fuzzy Caputo and Riemann–Liouville fractional differences are defined on a isolated time scale. Discrete Leibniz integral law is given by use of  $w$ -monotonicity conditions. Furthermore, equivalent fractional sum equations are ...

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**Some Applications**

**of Fractional**

**Calculus in**

**Applications In**

**Control And**

**Image Processing**

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**Computer Vision**

**Calculus of derivatives**

**and integrals of any**

**arbitrary real or**

**complex order) has**

**increased extensive**

**notoriety and**

**significance amid for**

**more than four**

**decades, mostly**

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because of its applications in various apparently different and broad fields of science and engineering.

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**Exploring Discrete Fractional Calculus - Undergraduate ...**

Fractional calculus was formulated in 1695, shortly after the development of classical calculus. The earliest systematic studies were attributed



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to Liouville, Riemann, Leibniz, etc. [1,2]. For a long time, fractional calculus has been regarded as a pure mathematical realm without real applications.

Computer Vision

**Chaos in discrete fractional difference equations ...**

applications of the theory of fractional calculus. Mathematics Subject Classification:

26A33 Keywords:

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fractional derivative,

fractional Integral,

differintegrals 1

Introduction Fractional

calculus is a field of

mathematics study

that grows out of the

tra-ditional definitions

of calculus integral and

derivative operators in

much the

## **Monotonicity results for $h$ -discrete fractional operators**

...

Discrete fractional

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calculus addresses this

idea in the setting of

functions defined on a

discrete domain. The

goals of this project are

to extend ideas that

students have learned

in calculus and

differential equations

in the case of fractional

differences in place of

ordinary derivatives.

**Generalized**

**Gronwall fractional**

**summation**

**inequalities and ...**

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Due to their successful applications in many branches of science and engineering, techniques of fractional calculus have been under focus by many researchers in the past and in the present decades [1-10]. The theory of fractional sums with delta operator and the fractional differences with nabla operators were firstly introduced in []. Extensive

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development of the theory can be found in [12-31].

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