

Topics In Fractional Differential Equations By Saïd Abbas Mouffak Benchohra Gaston M N Guérékata

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PDF Topics in Fractional Differential Equations

April 19th, 2020 - Fractional differential equations have been recently used as effective tools in the modeling of many phenomena in various fields of applied sciences and engineering such as acoustic control'

'Differential equation

May 5th, 2020 - A partial differential equation PDE is a differential equation that contains unknown multivariable functions and their partial derivatives This is in contrast to ordinary differential equations which deal with functions of a single variable and their derivatives PDEs are used to formulate problems involving functions of several variables and are either solved in closed form or used to'

'Fractional calculus

April 30th, 2020 - Fractals and Fractional Calculus in Continuum Mechanics Springer Verlag Telos ISBN 978 3 211 82913 4 Igor Podlubny 27 October 1998 Fractional Differential Equations An Introduction to Fractional Derivatives Fractional Differential Equations to Methods of Their Solution and Some of Their Applications Elsevier ISBN 978 0 08 053198 4'

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April 29th, 2020 - Numerous examples and theoretical applications of the theory are presented Features topics associated with fractional differential equations Discusses Weyl fractional calculus and some of its uses Includes selected physical problems which lead to fractional differential or integral equations'

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'An introduction to the fractional calculus and fractional

April 28th, 2020 - Discusses the historical development of fractional calculus its mathematical theory?particularly the Riemann Liouville version Numerous examples and theoretical applications of the theory are presented Features topics associated with fractional differential equations Discusses Weyl fractional calculus and some of its uses'

'Fractional Differential Equations an overview

April 30th, 2020 - Fractional differential equations have attracted much attention and have been widely used in engineering physics chemistry biology and other fields Podlubny 1999 Xuan et al 2005 Most nonlinear fractional diffusion equations have no exact solution the approximate solution or numerical solution may be a good approach'

'Axioms Special Issue Fractional Differential Equations

April 25th, 2020 - In this paper we use the conformable fractional derivative to discuss some fractional linear differential equations with constant coefficients By applying some similar arguments to the theory of ordinary differential equations we establish a sufficient condition to guarantee the reliability of solving constant coefficient fractional differential equations by the conformable Laplace''Fractional Calculus Integral and Differential Equations of

May 1st, 2020 - The first chapter explains definition of fractional calculus The second and third chapters look at the Riemann Liouville definitions of the fractional integral and derivative The fourth chapter looks at some fractional differential equations with an emphasis on the Laplace transform of the fractional integral and derivative'

'Topics in Fractional Differential Equations Developments

April 8th, 2020 - Topics in Fractional Differential Equations is devoted to the existence and uniqueness of solutions for various classes of Darboux problems for hyperbolic differential equations or inclusions involving the Caputo fractional derivative'

'Fractional Calculus and Fractional Differential Equations

April 18th, 2020 - The book covers the latest research on a variety of topics including parison of various numerical methods for solving FDEs the Adomian deposition method and its applications to fractional versions of the classical Poisson processes variable order fractional operators fractional variational principles fractional delay differential equations fractional order dynamical systems and''Difference Equations Theory Applications and Advanced

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April 21st, 2019 - The Fractional Trigonometry With Applications to Fractional Differential Equations and Science is an ideal reference for academic researchers research engineers research scientists mathematicians physicists biologists and chemists who need to apply new fractional calculus methods to a variety of disciplines''**Journal of Differential Equations Elsevier**

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'Some topics on the fractional Brownian motion and

April 10th, 2020 - In Chapter 1 we introduce some preliminaries on fractional Brownian motion and Malliavin calculus used in this

research Some main original results are also stated also in this chapter In Chapter 2 the notion of fractional martingale as the fractional derivative of order α of a continuous local martingale where $1/2 \leq \alpha \leq 1$ is introduced'

'A method for solving differential equations of fractional

March 30th, 2020 - In this paper we consider Caputo type fractional differential equations of order $0 < \alpha < 1$ with initial condition $x(0) = x_0$ We introduce a technique to find the exact solutions of fractional differential equations by using the solutions of integer order differential equations Generalization of the technique to finite systems is also given'

'Ele Math Fractional Differential Calculus Submissions

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'Topics in Fractional Differential Equations Springer

April 24th, 2020 - Springer Topics in Fractional Differential Equations is devoted to the existence and uniqueness of solutions for various classes of Darboux problems for hyperbolic differential equations or inclusions involving the Caputo fractional derivative Fractional calculus generalizes the integrals and derivatives to non integer orders'

'Basic Theory of Fractional Differential Equations

April 19th, 2020 - In this edition two new topics have been added that is fractional impulsive differential equations and fractional partial differential equations including fractional Navier-Stokes equations and fractional diffusion equations Sample Chapter s Chapter 1 Preliminaries 252 KB Contents Preliminaries Introduction''Editorial Qualitative Analysis on Differential Fractional

April 28th, 2020 - Qualitative Analysis on Differential Fractional Differential and Dynamic Equations and Related Topics SaidR Grace 1 TaherS Hassan 2 3 ShurongSun 4 andElvanAkin 5 Department of Engineering Mathematics Faculty of Engineering Cairo University Giza Egypt Department of Mathematics Faculty of Science University of Hail Hail Saudi Arabia''Topics in Fractional Differential Equations Developments

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April 8th, 2020 - Fixed Point Theorems via MNC in Ordered Banach Space with Application to Fractional Integro differential Evolution Equations Nashine Hemant Kumar Yang He and Agarwal Ravi P Taiwanese Journal of Mathematics 2018 Pseudo Asymptotic Behavior of Mild Solution for Nonautonomous Integrodifferential Equations with Nondense Domain Xia Zhinan Journal of Applied Mathematics 2014''Topics in Fractional Differential Equations SpringerLink

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April 27th, 2020 - Difference and Differential Equations is a section of the open access peer reviewed journal Mathematics which publishes high quality works on this subject and its applications in mathematics, computation and engineering The primary aim of Difference and Differential Equations is the publication and dissemination of relevant mathematical works in this discipline'

'New Trends in Fractional Differential Equations with Real

April 22nd, 2020 - In the past few years fractional differential equations have emerged as a strong and well-analyzed mathematical tool in the study of many occurrences in science and engineering Research in fractional differential equations is multidisciplinary and is used in diverse fields such as control systems, elasticity, electric drives, circuits, systems, continuum mechanics, heat transfer

'Fractional Partial Differential Equation

April 23rd, 2020 - The fractional partial differential equation for the simplest option a European call and put option discussed above can be extended to other types of options For example since an American option is exercisable at any point in time prior to maturity instead of an equality in the fractional partial differential equation there is an inequality i e \leq or \geq ?

'Time and space fractional partial differential equations

April 30th, 2020 - The fundamental solution for time and space fractional partial differential operator D_t^α \leq α \leq β \geq 0 is given in terms of the Fox's H function Here the time fractional derivative in the sense of generalized functions distributions D_t^α is defined by the convolution $D_t^\alpha f(t) = \frac{1}{\Gamma(\alpha)} \int_0^t (t-s)^{\alpha-1} f(s) ds$ where α \in \mathbb{R} and $f(t) = 0$ as $t \leq 0$ and the fractional n dimensional

'Approximate Analytical Solution for Nonlinear System of

April 16th, 2020 - We present two methods for solving a nonlinear system of fractional differential equations within Caputo derivative Firstly we derive operational matrices for Caputo fractional derivative and for Riemann Liouville fractional integral by using the Bernstein polynomials BPs In the first method we use the operational matrix of Caputo fractional derivative OMCFD and in the second one we arXiv 0805.3823v1 math ph 25 May 2008

May 1st, 2020 - The topics discussed here will be a essentials of Riemann Liouville fractional calculus with basic formulas of Laplace transforms b Abel type integral equations of α rst and second kind c relaxation and oscillation type differential equations of fractional order 2000 Math Subj Class 26A33 33E12 33E20 44A20 45E10 45J05

'Differential Equations MATLAB amp Simulink Example

May 2nd, 2020 - The equation is written as a system of two first order ordinary differential equations ODEs These equations are evaluated for different values of the parameter α For faster integration you should choose an appropriate solver based on the value of α For $\alpha > 1$ any of the MATLAB ODE solvers can solve the van der Pol equation efficiently The ode45 solver is one such example

'Differential Equations Department of Mathematics HKUST

May 5th, 2020 - used textbook Elementary differential equations and boundary value problems by Boyce amp DiPrima John Wiley amp Sons Inc Seventh Edition c 2001 Many of the examples presented in these notes may be found in this book The material of Chapter 7 is adapted from the textbook Nonlinear dynamics and chaos by Steven

'Fractional Calculus and Fractional Differential Equations

May 6th, 2020 - The book covers the latest research on a variety of topics including parison of various numerical methods for solving FDEs the Adomian deposition method and its applications to fractional versions of the classical Poisson processes variable order fractional operators fractional variational principles fractional delay differential equations fractional order dynamical systems and'

'Advances in Difference Equations Home page

May 6th, 2020 - The aim of Advances in Difference Equations is to report mainly the new developments in the field of difference equations and their applications in all fields We will also consider research articles emphasizing the qualitative behavior of solutions of ordinary partial delay fractional abstract stochastic fuzzy and set valued differential equations'

'An Ordinary Fractional Differential Equation

May 2nd, 2020 - The definition of the fractional derivative is for α and α where α is any postive integer greater than This Demonstration solves numerically the following ordinary fractional differential equation 1 where 2 Here and are parameters is a dependent variable and is an independent variable The discretization of equations 1 and'

'Fractional Differential Equations Science topic

April 28th, 2020 - The fundamentals of fractional differential equations and the basic preliminaries of fuzzy fractional differential equations are first introduced followed by numerical solutions parisons of Interpolation Schur Functions Topics in Fractional

May 5th, 2020 - Topics in Fractional Differential Equations Topics in Fractional Differential Equations is de voted to the existence and uniqueness of solutions for various classes of Darboux problems for hyper bolic differential equations or inclusions involving the Caputo fractional derivative Fractional calculus generalizes the integrals and derivatives'

'International Journal of Differential Equations Hindawi

May 5th, 2020 - International Journal of Differential Equations published special issues feature collections of articles based around a mon theme author or event International Journal of Differential Equations publishes research on differential equations and related integral equations from all scientists who use differential equations as tools within their own discipline'

'Topics in Fractional Differential Equations

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May 3rd, 2020 - Some topics on the fractional Brownian motion and stochastic partial differential equations By Jian Song Submitted to the Department of Mathematics and the Faculty of the Graduate School of the University of Kansas in partial fulfillment of the requirements for the degree of Doctor of Philosophy mittee members David Nualart Chairperson'

'Free Fractional Calculus Books Download Ebooks Online

May 3rd, 2020 - Covered topics are Historical origins of fractional calculus Fractional integral according to Riemann Liouville Caputo fractional derivative Riesz Feller fractional derivative Grunwald Letnikov Integral equations Relaxation and oscillation equations Fractional diffusion equation A nonlinear fractional differential equation Stochastic solution Geometrical interpretation of fractional' **'Fractional Calculus Integral and Differential Equations'**

April 23rd, 2020 - The topics discussed here will be a essentials of Riemann Liouville **fractional calculus with basic formulas of Laplace transforms b Abel type integral equations of first and second kind c relaxation and oscillation type differential equations of fractional order'** **'Fractional differential equations Isaac Newton Institute'**

April 24th, 2020 - Fractional differential equations capture effects going well beyond the range tractable by conventional concepts and tools and it is increasingly recognised that this framework is on the way of being a new paradigm in scientific modelling'

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