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Theory and Applications of Fractional Differential Equations

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Theory And Applications Of Fractional Differential Equations Volume 204 North Holland Mathematics Studies

**Harendra Singh, H M Srivastava, R. K.
Pandey**



Theory And Applications Of Fractional Differential Equations Volume 204 North Holland Mathematics Studies:

Theory And Applications of Fractional Differential Equations A. Anatolii Aleksandrovich Kilbas, Hari Mohan Srivastava, Juan J. Trujillo, 2006 This monograph provides the most recent and up to date developments on fractional differential and fractional integro differential equations involving many different potentially useful operators of fractional calculus The subject of fractional calculus and its applications that is calculus of integrals and derivatives of any arbitrary real or complex order has gained considerable popularity and importance during the past three decades or so due mainly to its demonstrated applications in numerous seemingly diverse and widespread fields of science and engineering Some of the areas of present day applications of fractional models include Fluid Flow Solute Transport or Dynamical Processes in Self Similar and Porous Structures Diffusive Transport akin to Diffusion Material Viscoelastic Theory Electromagnetic Theory Dynamics of Earthquakes Control Theory of Dynamical Systems Optics and Signal Processing Bio Sciences Economics Geology Astrophysics Probability and Statistics Chemical Physics and so on In the above mentioned areas there are phenomena with strange kinetics which have a microscopic complex behaviour and their macroscopic dynamics can not be characterized by classical derivative models The fractional modelling is an emergent tool which use fractional differential equations including derivatives of fractional order that is we can speak about a derivative of order 1/3 or square root of 2 and so on Some of such fractional models can have solutions which are non differentiable but continuous functions such as Weierstrass type functions Such kinds of properties are obviously impossible for the ordinary models What are the useful properties of these fractional operators which help in the modelling of so many anomalous processes From the point of view of the authors and from known experimental results most of the processes associated with complex systems have non local dynamics involving long memory in time and the fractional integral and fractional derivative operators do have some of those characteristics This book is written primarily for the graduate students and researchers in many different disciplines in the mathematical physical engineering and so many others sciences who are interested not only in learning about the various mathematical tools and techniques used in the theory and widespread applications of fractional differential equations but also in further investigations which emerge naturally from or which are motivated substantially by the physical situations modelled mathematically in the book This monograph consists of a total of eight chapters and a very extensive bibliography The main objective of it is to complement the contents of the other books dedicated to the study and the applications of fractional differential equations The aim of the book is to present in a systematic manner results including the existence and uniqueness of solutions for the Cauchy type problems involving nonlinear ordinary fractional differential equations explicit solutions of linear differential equations and of the corresponding initial value problems through different methods closed form solutions of ordinary and partial differential equations and a theory of the so called sequential linear fractional differential equations including a generalization of the classical Frobenius method and also to include an interesting set of

applications of the developed theory Key features It is mainly application oriented It contains a complete theory of Fractional Differential Equations It can be used as a postgraduate level textbook in many different disciplines within science and engineering It contains an up to date bibliography It provides problems and directions for further investigations Fractional Modelling is an emergent tool with demonstrated applications in numerous seemingly diverse and widespread fields of science and engineering It contains many examples and so on

Basic Theory Of Fractional Differential Equations (Third Edition) Yong Zhou, 2023-10-06 This accessible monograph is devoted to a rapidly developing area on the research of qualitative theory of fractional ordinary differential equations and evolution equations It is self contained and unified in presentation and provides the readers the necessary background material required to go further into the subject and explore the rich research literature The tools used include many classical and modern nonlinear analysis methods such as fixed point theory measure of noncompactness method topological degree method Picard operators technique critical point theory and semigroups theory This book is based on the research work done so far by the author and other experts and contains comprehensive up to date materials on the topic In this third edition four new topics have been added Hilfer fractional evolution equations and infinite interval problems oscillations and nonoscillations fractional Hamiltonian systems fractional Rayleigh Stokes equations and wave equations The bibliography has also been updated and expanded This book is useful to researchers graduate or PhD students dealing with fractional calculus and applied analysis differential equations and related areas of research

Differential Equations Terry E. Moschandreou, 2018-05-23 The editor has incorporated contributions from a diverse group of leading researchers in the field of differential equations This book aims to provide an overview of the current knowledge in the field of differential equations The main subject areas are divided into general theory and applications These include fixed point approach to solution existence of differential equations existence theory of differential equations of arbitrary order topological methods in the theory of ordinary differential equations impulsive fractional differential equations with finite delay and integral boundary conditions an extension of Massera's theorem for n dimensional stochastic differential equations phase portraits of cubic dynamic systems in a Poincare circle differential equations arising from the three variable Hermite polynomials and computation of their zeros and reproducing kernel method for differential equations Applications include local discontinuous Galerkin method for nonlinear Ginzburg Landau equation general function method in transport boundary value problems of theory of elasticity and solution of nonlinear partial differential equations by new Laplace variational iteration method Existence uniqueness theory of differential equations is presented in this book with applications that will be of benefit to mathematicians applied mathematicians and researchers in the field The book is written primarily for those who have some knowledge of differential equations and mathematical analysis The authors of each section bring a strong emphasis on theoretical foundations to the book

Proceedings of the Sixth International Conference on Mathematics and Computing Debasis Giri, Rajkumar Buyya, S. Ponnusamy, Debashis De, Andrew Adamatzky, Jemal H.

Abawajy,2020-12-10 This book features selected papers from the 6th International Conference on Mathematics and Computing ICMC 2020 organized by Sikkim University Gangtok Sikkim India during September 2020 It covers recent advances in the field of mathematics statistics and scientific computing The book presents innovative work by leading academics researchers and experts from industry *Non-Integer Order Calculus and its Applications* Piotr Ostalczyk,Dominik Sankowski,Jacek Nowakowski,2018-03-22 This book focuses on fractional calculus presenting novel advances in both the theory and applications of non integer order systems At the end of the twentieth century it was predicted that it would be the calculus of the twenty first century and that prophecy is confirmed year after year Now this mathematical tool is successfully used in a variety of research areas like engineering e g electrical mechanical chemical dynamical systems modeling analysis and synthesis e g technical biological economical as well as in multidisciplinary areas e g biochemistry electrochemistry As well as the mathematical foundations the book concentrates on the technical applications of continuous time and discrete time fractional calculus investigating the identification analysis and control of electrical circuits and dynamical systems It also presents the latest results Although some scientific centers and scientists are skeptical and actively criticize the applicability of fractional calculus it is worth breaking through the scientific and technological walls Because the fractional community is growing rapidly there is a pressing need for the exchange of scientific results The book includes papers presented at the 9th International Conference on Non integer Order Calculus and Its Applications and is divided into three parts Mathematical foundations Fractional systems analysis and synthesis System modeling Seven papers discuss the mathematical foundations twelve papers address fractional order analysis and synthesis and three focus on dynamical system modeling by the fractional order differential and difference equations It is a useful resource for fractional calculus scientific community Applications in Engineering, Life and Social Sciences, Part A Dumitru Băleanu,António Mendes Lopes,2019-04-01 This multi volume handbook is the most up to date and comprehensive reference work in the field of fractional calculus and its numerous applications This seventh volume collects authoritative chapters covering several applications of fractional calculus in in engineering life and social sciences including applications in biology and medicine mechanics of complex media economy and electrical devices **Numerical Methods** George Em Karniadakis,2019-04-15 This multi volume handbook is the most up to date and comprehensive reference work in the field of fractional calculus and its numerous applications This third volume collects authoritative chapters covering several numerical aspects of fractional calculus including time and space fractional derivatives finite differences and finite elements and spectral meshless and particle methods **Proceedings of the 8th International Conference on Fracture, Fatigue and Wear** Magd Abdel Wahab,2021-01-12 This proceedings gather a selection of peer reviewed papers presented at the 8th International Conference on Fracture Fatigue and Wear FFW 2020 held as a virtual conference on 26 27 August 2020 The contributions prepared by international scientists and engineers cover the latest advances in and innovative applications of fracture

mechanics fatigue of materials tribology and wear of materials In addition they discuss industrial applications and cover theoretical and analytical methods numerical simulations and experimental techniques The book is intended for academics including graduate students and researchers as well as industrial practitioners working in the areas of fracture fatigue and wear Advances in Applied Mathematics and Approximation Theory George A. Anastassiou, Oktay Duman, 2014-07-08

Advances in Applied Mathematics and Approximation Theory Contributions from AMAT 2012 is a collection of the best articles presented at Applied Mathematics and Approximation Theory 2012 an international conference held in Ankara Turkey May 17 20 2012 This volume brings together key work from authors in the field covering topics such as ODEs PDEs difference equations applied analysis computational analysis signal theory positive operators statistical approximation fuzzy approximation fractional analysis semigroups inequalities special functions and summability The collection will be a useful resource for researchers in applied mathematics engineering and statistics

Banach Contraction Principle Anita Tomar, Manish Jain, 2025-08-11 This book offers a comprehensive exploration of the Banach contraction principle and its many facets A compilation of chapters authored by global experts it is aimed at researchers and graduate students in mathematics The content covers the Banach contraction principle its generalizations extensions consequences and applications focusing on both single valued and multi valued mappings across various spaces While discussing theoretical foundations this book uniquely emphasizes the practical applications of the Banach contraction principle in real world problem solving scenarios Each chapter addresses specific topics including fractals fractional differentials integral equations elastic beam problems and mathematical modeling and analysis of electrical circuits These diverse subjects showcase the principle's versatility in solving complex issues that go beyond theoretical mathematics By highlighting Banach's contraction principle as a lasting legacy the book not only honours past mathematical achievements but also anticipates future innovations in industrial and applied mathematics It underscores the enduring relevance of the principle ensuring its continued prominence in mathematical discourse and its pivotal role in driving advancements across the field This comprehensive exploration catalyzes inspiring future developments in mathematical research

Advances in Non-Integer Order Calculus and Its Applications Agnieszka B. Malinowska, Dorota Mozyrska, Łukasz Sajewski, 2019-04-17 This book provides an overview of some recent findings in the theory and applications of non integer order systems Discussing topics ranging from the mathematical foundations to technical applications of continuous time and discrete time fractional calculus it includes 22 original research papers and is subdivided into four parts Mathematical Foundations Approximation Modeling and Simulations Fractional Systems Analysis and Control Applications The papers were selected from those presented at the 10th International Conference of Non integer Order Calculus and its Applications which was held at the Bialystok University of Technology Poland September 20 21 2018 Thanks to the broad spectrum of topics covered the book is suitable for researchers from applied mathematics and engineering It is also a valuable resource for graduate students as well as for

scholars looking for new mathematical tools Differential Equations, Mathematical Modeling and Computational Algorithms Vladimir Vasilyev, 2023-06-06 This book contains reports made at the International Conference on Differential Equations Mathematical Modeling and Computational Algorithms held in Belgorod Russia in October 2021 and is devoted to various aspects of the theory of differential equations and their applications in various branches of science Theoretical papers devoted to the qualitative analysis of emerging mathematical objects theorems of the existence and uniqueness of solutions to the boundary value problems under study are presented and numerical algorithms for their solution are described Some issues of mathematical modeling are also covered in particular in problems of economics computational aspects of the theory of differential equations and boundary value problems are studied The articles are written by well known experts and are interesting and useful to a wide audience mathematicians representatives of applied sciences and students and postgraduates of universities engaged in applied mathematics **Fractional Calculus: Theory and Applications** Francesco Mainardi, 2018-09-20 This book is a printed edition of the Special Issue Fractional Calculus Theory and Applications that was published in Mathematics **Special Functions in Fractional Calculus and Engineering** Harendra Singh, H M Srivastava, R. K. Pandey, 2023-06-29 Special functions play a very important role in solving various families of ordinary and partial differential equations as well as their fractional order analogs which model real life situations Owing to the non local nature and memory effect fractional calculus is capable of modeling many situations which arise in engineering This book includes a collection of related topics associated with such equations and their relevance and significance in engineering Special Functions in Fractional Calculus and Engineering highlights the significance and applicability of special functions in solving fractional order differential equations with engineering applications This book focuses on the non local nature and memory effect of fractional calculus in modeling relevant to engineering science and covers a variety of important and useful methods using special functions for solving various types of fractional order models relevant to engineering science This book goes on to illustrate the applicability and usefulness of special functions by justifying their numerous and widespread occurrences in the solution of fractional order differential integral and integrodifferential equations This book holds a wide variety of interconnected fundamental and advanced topics with interdisciplinary applications that combine applied mathematics and engineering sciences which are useful to graduate students Ph D scholars researchers and educators interested in special functions fractional calculus mathematical modeling and engineering **Dynamics with Inequalities** David E. Stewart, 2011-08-04 The first book that comprehensively addresses dynamics with inequalities Approximation Theory XV: San Antonio 2016 Gregory E. Fasshauer, Larry L. Schumaker, 2017-07-19 These proceedings are based on papers presented at the international conference Approximation Theory XV which was held May 22 25 2016 in San Antonio Texas The conference was the fifteenth in a series of meetings in Approximation Theory held at various locations in the United States and was attended by 146 participants The book contains

longer survey papers by some of the invited speakers covering topics such as compressive sensing isogeometric analysis and scaling limits of polynomials and entire functions of exponential type The book also includes papers on a variety of current topics in Approximation Theory drawn from areas such as advances in kernel approximation with applications approximation theory and algebraic geometry multivariate splines for applications practical function approximation approximation of PDEs wavelets and framelets with applications approximation theory in signal processing compressive sensing rational interpolation spline approximation in isogeometric analysis approximation of fractional differential equations numerical integration formulas and trigonometric polynomial approximation

Computation and Modeling for Fractional Order Systems Snehashish Chakraverty, Rajarama Mohan Jena, 2024-02-20

Computation and Modeling for Fractional Order Systems provides readers with problem solving techniques for obtaining exact and or approximate solutions of governing equations arising in fractional dynamical systems presented using various analytical semi analytical and numerical methods In this regard this book brings together contemporary and computationally efficient methods for investigating real world fractional order systems in one volume Fractional calculus has gained increasing popularity and relevance over the last few decades due to its well established applications in various fields of science and engineering It deals with the differential and integral operators with non integral powers Fractional differential equations are the pillar of various systems occurring in a wide range of science and engineering disciplines namely physics chemical engineering mathematical biology financial mathematics structural mechanics control theory circuit analysis and biomechanics among others The fractional derivative has also been used in various other physical problems such as frequency dependent damping behavior of structures motion of a plate in a Newtonian fluid PID controller for the control of dynamical systems and many others The mathematical models in electromagnetics rheology viscoelasticity electrochemistry control theory Brownian motion signal and image processing fluid dynamics financial mathematics and material science are well defined by fractional order differential equations Generally these physical models are demonstrated either by ordinary or partial differential equations However modeling these problems by fractional differential equations on the other hand can make the physics of the systems more feasible and practical in some cases In order to know the behavior of these systems we need to study the solutions of the governing fractional models The exact solution of fractional differential equations may not always be possible using known classical methods Generally the physical models occurring in nature comprise complex phenomena and it is sometimes challenging to obtain the solution both analytical and numerical of nonlinear differential equations of fractional order Various aspects of mathematical modeling that may include deterministic or uncertain viz fuzzy or interval or stochastic scenarios along with fractional order singular non singular kernels are important to understand the dynamical systems Computation and Modeling for Fractional Order Systems covers various types of fractional order models in deterministic and non deterministic scenarios Various analytical semi analytical numerical methods are applied for solving real life fractional order problems The

comprehensive descriptions of different recently developed fractional singular non singular fractal fractional and discrete fractional operators along with computationally efficient methods are included for the reader to understand how these may be applied to real world systems and a wide variety of dynamical systems such as deterministic stochastic continuous and discrete are addressed by the authors of the book Special Functions and Analysis of Differential Equations Praveen Agarwal, Ravi P Agarwal, Michael Ruzhansky, 2020-09-08

Differential Equations are very important tools in Mathematical Analysis. They are widely found in mathematics itself and in its applications to statistics, computing, electrical circuit analysis, dynamical systems, economics, biology, and so on. Recently, there has been an increasing interest in and widely extended use of differential equations and systems of fractional order that is of arbitrary order as better models of phenomena in various physics, engineering, automatization, biology, and biomedicine, chemistry, earth science, economics, nature, and so on. Now, new unified presentation and extensive development of special functions associated with fractional calculus are necessary tools being related to the theory of differentiation and integration of arbitrary order, i.e. fractional calculus, and to the fractional order or multi order differential and integral equations. This book provides learners with the opportunity to develop an understanding of advancements of special functions and the skills needed to apply advanced mathematical techniques to solve complex differential equations and Partial Differential Equations (PDEs). Subject matters should be strongly related to special functions involving mathematical analysis and its numerous applications. The main objective of this book is to highlight the importance of fundamental results and techniques of the theory of complex analysis for differential equations and PDEs and emphasizes articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, and engineering, particularly those that stress analytical aspects and novel problems and their solutions. Specific topics include but are not limited to: Partial differential equations, Least squares on first order system, Sequence and series in functional analysis, Special functions related to fractional non integer order control systems and equations, Various special functions related to generalized fractional calculus, Operational method in fractional calculus, Functional analysis and operator theory, Mathematical physics, Applications of numerical analysis and applied mathematics, Computational mathematics, Mathematical modeling. This book provides the recent developments in special functions and differential equations and publishes high quality peer reviewed book chapters in the area of nonlinear analysis, ordinary differential equations, partial differential equations and related applications.

Proceedings of International Conference on Trends in Computational and Cognitive Engineering Phool Singh, Rajesh Kumar Gupta, Kanad Ray, Anirban Bandyopadhyay, 2020-09-30

This book presents various computational and cognitive modeling approaches in the areas of health, education, finance, the environment, engineering, commerce, and industry. Gathering selected conference papers presented at the International Conference on Trends in Computational and Cognitive Engineering (TCCE), it shares cutting edge insights and ideas from mathematicians, engineers, scientists, and researchers and discusses fresh perspectives on problem solving in a range of

research areas Intelligent Comparisons: Analytic Inequalities George A. Anastassiou, 2015-07-11 This monograph presents recent and original work of the author on inequalities in real functional and fractional analysis The chapters are self contained and can be read independently they include an extensive list of references per chapter The book s results are expected to find applications in many areas of applied and pure mathematics especially in ordinary and partial differential equations and fractional differential equations As such this monograph is suitable for researchers graduate students and seminars of the above subjects as well as Science and Engineering University libraries

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