



# **LOCAL FRACTIONAL INTEGRAL TRANSFORMS AND THEIR APPLICATIONS**

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# Local Fractional Integral Transforms And Their Applications

**Kenan Taş, Dumitru Baleanu, J. A.  
Tenreiro Machado**



## **Local Fractional Integral Transforms And Their Applications:**

**Local Fractional Integral Transforms and Their Applications** Xiao Jun Yang, 2015      **Local Fractional Integral Transforms and Their Applications** Xiao-Jun Yang, Dumitru Baleanu, Hari M Srivastava, 2015-10-22 Local Fractional Integral Transforms and Their Applications provides information on how local fractional calculus has been successfully applied to describe the numerous widespread real world phenomena in the fields of physical sciences and engineering sciences that involve non differentiable behaviors The methods of integral transforms via local fractional calculus have been used to solve various local fractional ordinary and local fractional partial differential equations and also to figure out the presence of the fractal phenomenon The book presents the basics of the local fractional derivative operators and investigates some new results in the area of local integral transforms Provides applications of local fractional Fourier Series Discusses definitions for local fractional Laplace transforms Explains local fractional Laplace transforms coupled with analytical methods      *Methods of Mathematical Modelling and Computation for Complex Systems* Jagdev Singh, Hemen Dutta, Devendra Kumar, Dumitru Baleanu, Jordan Hristov, 2021-08-26 This book contains several contemporary topics in the areas of mathematical modelling and computation for complex systems The readers find several new mathematical methods mathematical models and computational techniques having significant relevance in studying various complex systems The chapters aim to enrich the understanding of topics presented by carefully discussing the associated problems and issues possible solutions and their applications or relevance in other scientific areas of study and research The book is a valuable resource for graduate students researchers and educators in understanding and studying various new aspects associated with complex systems Key Feature The chapters include theory and application in a mix and balanced way Readers find reasonable details of developments concerning a topic included in this book The text is emphasized to present in self contained manner with inclusion of new research problems and questions      **Mathematical Methods in Engineering** Kenan Taş, Dumitru Baleanu, J. A. Tenreiro Machado, 2018-08-02 This book presents recent developments in nonlinear dynamics with an emphasis on complex systems The volume illustrates new methods to characterize the solutions of nonlinear dynamics associated with complex systems This book contains the following topics new solutions of the functional equations optimization algorithm for traveling salesman problem fractals control fractional calculus models fractional discretization local fractional partial differential equations and their applications and solutions of fractional kinetic equations      *Non-Fourier Heat Conduction* Alexander I. Zhmakin, 2023-07-01 This book presents a broad and well structured overview of various non Fourier heat conduction models The classical Fourier heat conduction model is valid for most macroscopic problems However it fails when the wave nature of the heat propagation becomes dominant and memory or non local spatial effects become significant e g during ultrafast heating heat transfer at the nanoscale in granular and porous materials at extremely high values of the heat flux or in heat transfer in biological tissues The book looks at numerous non Fourier heat

conduction models that incorporate time non locality for materials with memory such as hereditary materials including fractional hereditary materials and or spatial non locality i e materials with a non homogeneous inner structure Beginning with an introduction to classical transport theory including phase lag phonon and thermomass models the book then looks at various aspects of relativistic and quantum transport including approaches based on the Landauer formalism as well as the Green Kubo theory of linear response Featuring an appendix that provides an introduction to methods in fractional calculus this book is a valuable resource for any researcher interested in theoretical and numerical aspects of complex non trivial heat conduction problems

*Nonlinear Differential Equations in Physics* Santanu Saha Ray, 2019-12-28 This book discusses various novel analytical and numerical methods for solving partial and fractional differential equations Moreover it presents selected numerical methods for solving stochastic point kinetic equations in nuclear reactor dynamics by using Euler Maruyama and strong order Taylor numerical methods The book also shows how to arrive at new exact solutions to various fractional differential equations such as the time fractional Burgers Hopf equation the 3 1 dimensional time fractional Khokhlov Zabolotskaya Kuznetsov equation 3 1 dimensional time fractional KdV Khokhlov Zabolotskaya Kuznetsov equation fractional 2 1 dimensional Davey Stewartson equation and integrable Davey Stewartson type equation Many of the methods discussed are analytical numerical namely the modified decomposition method a new two step Adomian decomposition method new approach to the Adomian decomposition method modified homotopy analysis method with Fourier transform modified fractional reduced differential transform method MFRDTM coupled fractional reduced differential transform method CFRDTM optimal homotopy asymptotic method first integral method and a solution procedure based on Haar wavelets and the operational matrices with function approximation The book proposes for the first time a generalized order operational matrix of Haar wavelets as well as new techniques MFRDTM and CFRDTM for solving fractional differential equations Numerical methods used to solve stochastic point kinetic equations like the Wiener process Euler Maruyama and order 1 5 strong Taylor methods are also discussed

*Wavelet Methods for Solving Partial Differential Equations and Fractional Differential Equations* Santanu Saha Ray, Arun Kumar Gupta, 2018-01-12 The main focus of the book is to implement wavelet based transform methods for solving problems of fractional order partial differential equations arising in modelling real physical phenomena It explores analytical and numerical approximate solution obtained by wavelet methods for both classical and fractional order partial differential equations

**Fractional Dynamics** Carlo Cattani, Hari M. Srivastava, Xiao-Jun Yang, 2015-01-01 The book is devoted to recent developments in the theory of fractional calculus and its applications Particular attention is paid to the applicability of this currently popular research field in various branches of pure and applied mathematics In particular the book focuses on the more recent results in mathematical physics engineering applications theoretical and applied physics as quantum mechanics signal analysis and in those relevant research fields where nonlinear dynamics occurs and several tools of nonlinear analysis are required Dynamical processes and dynamical

systems of fractional order attract researchers from many areas of sciences and technologies ranging from mathematics and physics to computer science      *Basic Theory* Anatoly Kochubei, Yuri Luchko, 2019-02-19 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 first volume collects authoritative chapters covering the mathematical theory of fractional calculus including fractional order operators integral transforms and equations special functions calculus of variations and probabilistic and other aspects

*Recent Developments in Theory and Applications of Fractional Order Systems* Mehmet Yavuz, Dharmendra Kumar Singh, Stuart Townley, 2025-09-01 Recent Developments in Theory and Applications of Fractional Order Systems presents a rigorous and thorough analysis of various aspects of Fractional Calculus The book provides readers with a thorough understanding of fundamental concepts and methods of applied mathematics utilized in a variety of scientific and engineering disciplines The authors present each computational modeling concept with a definition methods theorems and observations followed by typical application problems and step by step solutions Each topic is covered in detail followed typically by several meticulously worked out examples and a problem set containing many additional related problems In addition the book discusses recent developments and the latest research on Fractional Calculus and its applications demonstrating important applications in Engineering Computer Science Management Social Science and the Humanities Provides readers with a thorough understanding of fundamental concepts and methods of applied mathematics utilized in a variety of scientific and engineering disciplines Presents a systematic introduction to most of the important special functions in Fractional Calculus that commonly arise in scientific and engineering practice Explores many salient computational modeling properties Analyzes theoretical and practical problems in Fractional Calculus in fields such as Engineering Computer Science Management Social Science and the Humanities      *Solved Exercises in Fractional Calculus* Edmundo Capelas de Oliveira, Jayme Vaz, 2025-04-28 This textbook provides a comprehensive exploration of special functions and fractional calculus offering a structured approach through solved and proposed exercises Covering key mathematical concepts such as Mittag Leffler functions Kilbas Saigo functions and the Erd lyi Kober fractional integral it balances theoretical insights with practical applications Appendices introduce Barnes G functions and demonstrate the use of Mathematica for fractional calculus expanding the book s accessibility With an updated index and extensive references this edition serves as a valuable resource for researchers graduate students and professionals in applied mathematics and related fields      **Advance Numerical Techniques to Solve Linear and Nonlinear Differential Equations** Geeta Arora, Mangey

Ram, 2024-01-23 Real world issues can be translated into the language and concepts of mathematics with the use of mathematical models Models guided by differential equations with intuitive solutions can be used throughout engineering and the sciences Almost any changing system may be described by a set of differential equations They may be found just about anywhere you look in fields including physics engineering economics sociology biology business healthcare etc The

nature of these equations has been investigated by several mathematicians over the course of hundreds of years and consequently numerous effective methods for solving them have been created. It is often impractical to find a purely analytical solution to a system described by a differential equation because either the system itself is too complex or the system being described is too vast. Numerical approaches and computer simulations are especially helpful in such systems. The content provided in this book involves real world examples, explores research challenges in numerical treatment and demonstrates how to create new numerical methods for resolving problems. Theories and practical applications in the sciences and engineering are also discussed. Students of engineering and applied mathematics as well as researchers and engineers who use computers to solve problems numerically or oversee those who do will find this book focusing on advanced numerical techniques to solve linear and nonlinear differential equations useful.

**Theory and Applications of Non-integer Order Systems** Artur Babiarz, Adam Czornik, Jerzy Klamka, Michał Niezabitowski, 2016-09-15. This book collects papers from the 8th Conference on Non Integer Order Calculus and Its Applications that have been held on September 20-21, 2016 in Zakopane, Poland. The preceding two conferences were held in Szczecin, Poland in 2015 and in Opole, Poland in 2014. This conference provides a platform for academic exchange on the theory and application of fractional calculus between domestic and international universities, research institutes, corporate experts and scholars. The Proceedings of the 8th Conference on Non Integer Order Calculus and Its Applications 2016 brings together rigorously reviewed contributions from leading international experts. The included papers cover novel, various important aspects of mathematical foundations of fractional calculus, modeling and control of fractional systems as well as controllability, detectability, observability and stability problems for these systems.

**Fractional Calculus and its Applications in Physics** Dumitru Baleanu, Devendra Kumar, 2019-11-15.

**Frontiers in Fractional Calculus** Sachin Bhalekar, 2018-03-21. This book brings together eleven topics on different aspects of fractional calculus in a single volume. It provides readers the basic knowledge of fractional calculus and introduces advanced topics and applications. The information in the book is presented in four parts: 1. Fractional Diffusion Equations: i) solutions of fractional diffusion equations using wavelet methods; ii) the maximum principle for time fractional diffusion equations; iii) nonlinear sub diffusion equations. 2. Mathematical Analysis: i) shifted Jacobi polynomials for solving and identifying coupled fractional delay differential equations; ii) the monotone iteration principle in the theory of Hadamard fractional delay differential equations; iii) dynamics of fractional order modified Bhalekar-Gejji System. 4. Reviews: i) the popular iterative method NIM; ii) fractional derivative with non singular kernels; iii) some open problems in fractional order nonlinear system. This is a useful reference for researchers and graduate level mathematics students seeking knowledge about fractional calculus and applied mathematics.

**Generalized Fractional Order Differential Equations Arising in Physical Models** Santanu Saha Ray, Subhadarshan Sahoo, 2018-11-13. This book analyzes the various semi-analytical

and analytical methods for finding approximate and exact solutions of fractional order partial differential equations It explores approximate and exact solutions obtained by various analytical methods for fractional order partial differential equations arising in physical models

**General Fractional Derivatives** Xiao-Jun Yang, 2019-05-10 General Fractional Derivatives Theory Methods and Applications provides knowledge of the special functions with respect to another function and the integro differential operators where the integrals are of the convolution type and exist the singular weakly singular and nonsingular kernels which exhibit the fractional derivatives fractional integrals general fractional derivatives and general fractional integrals of the constant and variable order without and with respect to another function due to the appearance of the power law and complex herbivores to figure out the modern developments in theoretical and applied science Features Give some new results for fractional calculus of constant and variable orders Discuss some new definitions for fractional calculus with respect to another function Provide definitions for general fractional calculus of constant and variable orders Report new results of general fractional calculus with respect to another function Propose news special functions with respect to another function and their applications Present new models for the anomalous relaxation and rheological behaviors This book serves as a reference book and textbook for scientists and engineers in the fields of mathematics physics chemistry and engineering senior undergraduate and graduate students Dr Xiao Jun Yang is a full professor of Applied Mathematics and Mechanics at China University of Mining and Technology China He is currently an editor of several scientific journals such as Fractals Applied Numerical Mathematics Mathematical Modelling and Analysis International Journal of Numerical Methods for Heat Fluid Flow and Thermal Science

*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      *Mathematical Modeling using Differential Equations, and Network Theory* Ioannis Dassios, 2020-06-23

This Special Issue collects the latest results on differential difference equations the mathematics of networks and their applications to engineering and physical phenomena It features nine high quality papers that were published with original research results The Special Issue brings together mathematicians with physicists engineers as well as other scientists

**Fractional Calculus** Behzad Ghanbari, 2024-06-21 Fractional Calculus Bridging Theory with Computational and Contemporary Advances is an authoritative and comprehensive guide that delves into the world of fractional calculus offering a unique blend of theoretical foundations numerical algorithms practical applications and innovative perspectives This book explores the mathematical framework of fractional calculus and its relevance across various disciplines providing readers with a deep understanding of this rapidly growing field The author presents a rigorous yet accessible approach to fractional calculus making it suitable for mathematicians researchers academics graduate students and professionals in engineering and applied sciences The book covers a wide range of topics including numerical methods for fractional calculus equations fractional differential equations fractal dynamics and fractional control systems It also explores applications in areas such as physics engineering signal processing and data analysis Fractional Calculus Bridging Theory with Computational and Contemporary Advances equips readers with the necessary tools to tackle challenging problems involving fractional calculus empowering them to apply these techniques in their research professional work or academic pursuits The book provides a comprehensive introduction to the fundamentals of fractional calculus explaining the theoretical concepts and key definitions in a clear and accessible manner This helps readers build a strong foundation in the subject The book then covers a range of numerical algorithms specifically designed for fractional calculus problems explaining the underlying principles step by step implementation and computational aspects of these algorithms This enables readers to apply numerical techniques to solve fractional calculus problems effectively The book also provides examples that illustrate how fractional calculus is applied to solve real world problems providing readers with insights into the wide ranging applications of the subject Provides a comprehensive introduction to the fundamentals of fractional calculus explaining the theoretical concepts and key definitions in a clear and accessible manner Covers a range of numerical algorithms specifically designed for fractional calculus problems Includes practical examples and case studies from various fields such as physics biology finance and signal processing

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