



Fractional calculus with an integral operator containing a generalized Mittag–Leffler function in the kernel

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ABSTRACT

In this paper, we introduce and investigate a fractional calculus with an integral operator which contain the following family of generalized Mittag–Leffler function:

$$E_{\alpha, \beta, \gamma}^{\delta}(x) = \sum_{n=0}^{\infty} \frac{(\gamma)_n}{\Gamma(\alpha n + \beta)} \frac{x^n}{n!} \quad (\alpha, \beta, \gamma \in \mathbb{C}; \Re(x) > \max\{0, \Re(\alpha) - 1\}, \Re(x) > 0)$$

in its kernel, $(\gamma)_n$ being the familiar Pochhammer symbol. A number of corollaries and consequences of the main results presented here are also considered.

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1. Introduction, definitions and preliminaries

As mentioned in the survey article by Gorenflo and Mainardi [4], even the classical Mittag–Leffler functions have remained, for a long time, almost totally ignored in the common handbooks on special functions and tables of integral transforms, although a reasonably adequate description of many of their interesting and potentially useful properties appeared already in the third volume of the celebrated Bateman Manuscript Project (see Erdélyi et al. [2, Chapter 18]) in a chapter devoted to Miscellaneous Functions). The Mittag–Leffler functions $E_{\alpha}(x)$ and $E_{\alpha, \beta}(x)$ are defined by the following series:

$$E_{\alpha}(x) = \sum_{n=0}^{\infty} \frac{x^n}{\Gamma(\alpha n + 1)} \quad (x \in \mathbb{C}; \Re(x) > 0) \quad (1.1)$$

and

$$E_{\alpha, \beta}(x) = \sum_{n=0}^{\infty} \frac{x^n}{\Gamma(\alpha n + \beta)} \quad (x, \beta \in \mathbb{C}; \Re(x) > 0), \quad (1.2)$$

respectively. These functions are natural extensions of the exponential, hyperbolic and trigonometric functions, since

$$E_1(x) = e^x, \quad E_2(x^2) = \cosh x \quad \text{and} \quad E_2(-x^2) = \cos x.$$

For a detailed account of the various properties, generalizations and applications of the Mittag–Leffler functions, the reader may refer to the recent works by (for example) Džurđević [1], Kilbas and Saigo [11], Gorenflo and Mainardi [4], Gorenflo et al.

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Fractional Calculus With An Integral Operator Containing A

Harendra Singh, Hari M Srivastava



Fractional Calculus With An Integral Operator Containing A:

Advances in Mathematical Modelling, Applied Analysis and Computation Jagdev Singh, George A. Anastassiou, Dumitru Baleanu, Carlo Cattani, Devendra Kumar, 2022-10-13 This book is a valuable source for graduate students and researchers and provides a comprehensive introduction to recent theories and applications of mathematical modeling and numerical simulation It includes selected peer reviewed papers presented at the 4th International Conference on Mathematical Modelling Applied Analysis and Computation ICMMAAC 2021 held at JECRC University Jaipur India during August 5 7 2021 The book is focused on mathematical modeling of various problems arising in science and engineering and new efficient numerical approaches for solving linear nonlinear problems and rigorous mathematical theories which can be used to analyze different kinds of mathematical models Applications of mathematical methods in physics chemistry biology mechanical engineering civil engineering computer science social science and finance are presented *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 **Approximation Theory and Analytic Inequalities** Themistocles M. Rassias, 2021-07-21 This contributed volume focuses on various important areas of mathematics in which approximation methods play an essential role It features cutting edge research on a wide spectrum of analytic inequalities with emphasis on differential and integral inequalities in the spirit of functional analysis operator theory nonlinear analysis variational calculus featuring a plethora of applications making this work a valuable resource The reader will be exposed to convexity theory polynomial inequalities extremal problems prediction theory fixed point theory for operators PDEs fractional integral inequalities multidimensional numerical integration Gauss Jacobi and Hermite Hadamard type inequalities Hilbert type inequalities and Ulam s stability of functional equations Contributions have been written by eminent researchers providing up to date information and several results which may be useful to a wide readership including graduate students and researchers working in mathematics physics economics operational research and their interconnections **Frontiers in Physics - 2017 & 2018 Editor's Choice** Thomas Beyer, Ewald Moser, Dieter W. Heermann, Christian F. Klingenberg, James Sauls, José W. F. Valle, Jan de Boer, Emilio Elizalde, Dumitru Baleanu, Alex Hansen, Nicholas X. Fang, Lorenzo Pavesi, Bretislav Friedrich, Christine Charles, Matjaž Perc, Jasper Van Der Gucht, Rudolf von Steiger, Claudio Bogazzi, 2019-02-22 Launched in 2013 *Frontiers in Physics* consists of 18 specialties covering all areas of research in physics With over 500 published manuscripts the journal is now indexed in SCIE with the first impact factor coming in 2019 *Frontiers in Physics* aims to become the largest and most cited open access multidisciplinary physics journal This eBook collects what the Specialty Chief Editors of the journal believed were the most interesting manuscripts published over the

past two years It is a nice collection which will offer the reader the chance to have a quick overview of the specialties of the journal and offer a glimpse into the state of the art of physics We must confess that it has been quite challenging to select only one article per specialty section given the many important manuscripts published by the journal in 2017 and 2018 We invite our reader to have a look at the journal homepage and browse what we have published so far It includes articles on topics very different from each other written by both early career scientists and well known researchers ranging from the indisputable advance of the field to the more bold We hope you enjoy reading our first edition of the Frontiers in Physics Editor s Choice eBook Professor Alex Hansen Field Chief Editor and Dr Claudio Bogazzi Journal Manager

Mathematical Methods in Medical and Biological Sciences Harendra Singh, Hari M Srivastava, 2024-11-05 Mathematical Methods in Medical and Biological Sciences presents mathematical methods for computational models arising in the medical and biological sciences The book presents several real life medical and biological models such as infectious and non infectious diseases that can be modeled mathematically to accomplish profound research in virtual environments when the cost of laboratory expenses is relatively high It focuses on mathematical techniques that provide global solutions for models arising in medical and biological sciences by considering their long term benefits In addition the book provides leading edge developments and insights for a range of applications including epidemiological modeling of pandemic dynamics viral infection developments cancer developments blood oxygen dynamics HIV infection spread reaction diffusion models polio infection spread and chaos modeling with fractional order derivatives Presents the mathematical treatment of a wide range of real life medical and biological models including both infectious and non infectious diseases Provides in depth analysis of the spread of Covid 19 polio and HIV including discussion of computational methods and applications Includes computational modeling methods along with their practical applications providing the basis for further exploration and research in epidemiology and applied biomedical sciences

Fractional Integrals and Potentials Boris Rubin, 1996-06-24 This volume presents recent developments in the fractional calculus of functions of one and several real variables and shows the relation of this field to a variety of areas in pure and applied mathematics Beyond some basic properties of fractional integrals in one and many dimensions it contains a mathematical theory of certain important weakly singular integral equations of the first kind arising in mechanics diffraction theory and other areas of mathematical physics The author focuses on explicit inversion formulae that can be obtained by making use of the classical Marchaud s approach and its generalization leading to wavelet type representations

Mathematical and Computational Intelligence to Socio-scientific Analytics and Applications Pankaj Srivastava, M. Lellis Thivagar, Georgia Irina Oros, Chai Ching Tan, 2023-01-02 This book presents a collection of selected papers presented at the 22nd FAI International Conference on Mathematical Computational Intelligence and Engineering Approaches to Healthcare Business and Tourism Analytics FAI ICMCIE 2020 held at American College Madurai India from 20-22 December 2020 This book discusses advanced mathematical concepts and computational intelligence approaches for

medical diagnostic approach in cardiac diseases nano topology in medical diseases stability of indicators in assessing business development AI guided paradigmatic competence in science and spirituality integration neural network TOPSIS analytics in hotel service quality itinerary planning destination ranking tourism analytics molecular modeling and docking simulation for unraveling medicinal properties value oriented approach on commercial banks security Brownian motion in shares of the bank internet of things linking to social media and e commerce and more which are discussed by using fuzzy analytics nano topology statistical TOPSIS and neural network tools

The Fundamentals of Fractional Calculus

Dharmendra Kumar Singh, Mehmet Yavuz, 2025-09-23 Fractional calculus is one of the most important divisions of theoretical and applied mathematics This new book presents a wide variety of interesting technologies and practices used in fractional calculus providing detailed insight into recent developments and the latest research in the field of science engineering etc using fractional calculus The result of the teaching experiences of the editors and authors to engineering and science students the volume discusses fractional calculus via generalized functions and integral transforms of pathway type Laplace transformation of fractional integrals and derivatives estimating the order of derivation in a fractional differential equation a new class of integro differential equations with non singular differential operators various uses of the Caputo approach a gingerbread man discrete system etc The various applications of fractional calculus are shown with examples such as for creating and or solving epidemic models alcoholism models model for divorce dynamics and more Giving a rigorous and thorough analysis of various aspects of fractional calculus this volume helps scientific readers as well as researchers working in the area of fractional calculus to establish the key steps followed in the research methodology and concept development

Recent Developments in Algebra and Analysis Ho-Hon Leung, R. Sivaraj, Firuz Kamalov, 2024-02-22 This volume collects the proceedings of the International Conference on Recent Developments in Mathematics ICRDM held at Canadian University Dubai UAE in August 2022 It is the first of two volumes this first volume focuses on recent advances in algebra and analysis and the second volume covers more applied topics Each chapter identifies existing challenges in these theoretical areas and highlights the importance of establishing new theorems and algorithms to address them Recent Developments in Algebra and Analysis will appeal to a range of postgraduate students and researchers who are interested in exploring more on these areas and play an integral role in modern science

Fractional Calculus

Varsha Daftardar-Gejji, 2013-07-26 FRACTIONAL CALCULUS Theory and Applications deals with differentiation and integration of arbitrary order The origin of this subject can be traced back to the end of seventeenth century the time when Newton and Leibniz developed foundations of differential and integral calculus Nonetheless utility and applicability of FC to various branches of science and engineering have been realized only in last few decades Recent years have witnessed tremendous upsurge in research activities related to the applications of FC in modeling of real world systems Unlike the derivatives of integral order the non local nature of fractional derivatives correctly models many natural phenomena containing long

memory and give more accurate description than their integer counterparts The present book comprises of contributions from academicians and leading researchers and gives a panoramic overview of various aspects of this subject Introduction to Fractional Calculus Fractional Differential Equations Fractional Ordered Dynamical Systems Fractional Operators on Fractals Local Fractional Derivatives Fractional Control Systems Fractional Operators and Statistical Distributions Applications to Engineering *The Fractional Calculus* Keith B. Oldham, Jerome Spanier, 2006 Not only does this text explain the theory underlying the properties of the generalized operator but it also illustrates the wide variety of fields to which these ideas may be applied Topics include integer order simple and complex functions semiderivatives and semi integrals and transcendental functions 1974 edition *Mathematical Analysis and Applications* Themistocles M. Rassias, Panos M. Pardalos, 2019-12-12 An international community of experts scientists comprise the research and survey contributions in this volume which covers a broad spectrum of areas in which analysis plays a central role Contributions discuss theory and problems in real and complex analysis functional analysis approximation theory operator theory analytic inequalities the Radon transform nonlinear analysis and various applications of interdisciplinary research some are also devoted to specific applications such as the three body problem finite element analysis in fluid mechanics algorithms for difference of monotone operators a vibrational approach to a financial problem and more This volume is useful to graduate students and researchers working in mathematics physics engineering and economics **Journal of Fractional Calculus**, 2002 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

Recent Trends in Fractional Calculus and Its Applications Praveen Agarwal,Luis Vázquez Martínez,Ervin K. Lenzi,2024-07-02 Recent Trends in Fractional Calculus and Its Applications addresses the answer to this very basic question Why is Fractional Calculus important Until recent times Fractional Calculus was considered as a rather esoteric mathematical theory without applications but in the last few decades there has been an explosion of research activities on the application of Fractional Calculus to very diverse scientific fields ranging from the physics of diffusion and advection phenomena to control systems to finance and economics An important part of mathematical modelling of objects and processes is a description of their dynamics The term Fractional Calculus is more than 300 years old It is a generalization of the ordinary differentiation and integration to noninteger arbitrary order The subject is as old as the calculus of differentiation and goes back to times when Leibniz Gauss and Newton invented this kind of calculation Several mathematicians contributed to this subject over the years People like Liouville Riemann and Weyl made major contributions to the theory of Fractional Calculus In recent decades the field of Fractional Calculus has attracted the interest of researchers in several areas including mathematics physics chemistry engineering finance and social sciences Provides the most recent and up to date developments in the Fractional Calculus and its application areas Presents pre preparation ideas to help researchers scientists clinicians face the new challenges in the application of fractional differential equations Helps researchers and scientists understand the importance of the Fractional Calculus to solve many problems in Biomedical Engineering and applied sciences

[AIAA Journal](#) American Institute of Aeronautics and Astronautics,1997 [Generalized Fractional Calculus and Applications](#) Virginia S Kiryakova,1993-12-27 In this volume various applications are discussed in particular to the hyper Bessel differential operators and equations Dzrbashjan Gelfond Leontiev operators and Borel type transforms convolutions new representations of hypergeometric functions solutions to classes of differential and integral equations transmutation method and generalized integral transforms Some open problems are also posed This book is intended for graduate and post graduate students lecturers researchers and others working in applied mathematical analysis mathematical physics and related disciplines

Univalent Functions, Fractional Calculus, and Their Applications H. M. Srivastava,Shigeyoshi Owa,1989 *Mathematical Reviews* ,2007 **Fractional Calculus and Its Applications** B. Ross,2006-11-15

This book delves into Fractional Calculus With An Integral Operator Containing A. Fractional Calculus With An Integral Operator Containing A is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Fractional Calculus With An Integral Operator Containing A, encompassing both the fundamentals and more intricate discussions.

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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Fractional Calculus With An Integral Operator Containing A.

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