

Springer Monographs in Mathematics

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# Mittag-Leffler Functions, Related Topics and Applications

*Second Edition*

 Springer

# Mittag Leffler Functions Related Topics And Applications Springer Monographs In Mathematics

**H. M. Srivastava**



## **Mittag Leffler Functions Related Topics And Applications Springer Monographs In Mathematics:**

Mittag-Leffler Functions, Related Topics and Applications Rudolf Gorenflo, Anatoly A. Kilbas, Francesco Mainardi, Sergei V. Rogosin, 2014-10-16 As a result of researchers and scientists increasing interest in pure as well as applied mathematics in non conventional models particularly those using fractional calculus Mittag Leffler functions have recently caught the interest of the scientific community Focusing on the theory of the Mittag Leffler functions the present volume offers a self contained comprehensive treatment ranging from rather elementary matters to the latest research results In addition to the theory the authors devote some sections of the work to the applications treating various situations and processes in viscoelasticity physics hydrodynamics diffusion and wave phenomena as well as stochastics In particular the Mittag Leffler functions allow us to describe phenomena in processes that progress or decay too slowly to be represented by classical functions like the exponential function and its successors The book is intended for a broad audience comprising graduate students university instructors and scientists in the field of pure and applied mathematics as well as researchers in applied sciences like mathematical physics theoretical chemistry bio mathematics theory of control and several other related areas

Mittag-Leffler Functions, Related Topics and Applications Rudolf Gorenflo, Anatoly A. Kilbas, Francesco Mainardi, Sergei Rogosin, 2020-10-27 The 2nd edition of this book is essentially an extended version of the 1st and provides a very sound overview of the most important special functions of Fractional Calculus It has been updated with material from many recent papers and includes several surveys of important results known before the publication of the 1st edition but not covered there As a result of researchers and scientists increasing interest in pure as well as applied mathematics in non conventional models particularly those using fractional calculus Mittag Leffler functions have caught the interest of the scientific community Focusing on the theory of Mittag Leffler functions this volume offers a self contained comprehensive treatment ranging from rather elementary matters to the latest research results In addition to the theory the authors devote some sections of the work to applications treating various situations and processes in viscoelasticity physics hydrodynamics diffusion and wave phenomena as well as stochastics In particular the Mittag Leffler functions make it possible to describe phenomena in processes that progress or decay too slowly to be represented by classical functions like the exponential function and related special functions The book is intended for a broad audience comprising graduate students university instructors and scientists in the field of pure and applied mathematics as well as researchers in applied sciences like mathematical physics theoretical chemistry bio mathematics control theory and several other related areas

**Integral Transforms and Operational Calculus** H. M. Srivastava, 2019-11-20 Researches and investigations involving the theory and applications of integral transforms and operational calculus are remarkably wide spread in many diverse areas of the mathematical physical chemical engineering and statistical sciences This Special Issue contains a total of 36 carefully selected and peer reviewed articles which are authored by established researchers from many countries Included in this

Special Issue are review expository and original research articles dealing with the recent advances on the topics of integral transforms and operational calculus as well as their multidisciplinary applications

**Mathematical Economics** Vasily E. Tarasov, 2020-06-03 This book is devoted to the application of fractional calculus in economics to describe processes with memory and non locality Fractional calculus is a branch of mathematics that studies the properties of differential and integral operators that are characterized by real or complex orders Fractional calculus methods are powerful tools for describing the processes and systems with memory and nonlocality Recently fractional integro differential equations have been used to describe a wide class of economical processes with power law memory and spatial nonlocality Generalizations of basic economic concepts and notions the economic processes with memory were proposed New mathematical models with continuous time are proposed to describe economic dynamics with long memory This book is a collection of articles reflecting the latest mathematical and conceptual developments in mathematical economics with memory and non locality based on applications of fractional calculus

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 this systems

*Inverse Problems for Fractional Partial Differential Equations* Barbara Kaltenbacher, William Rundell, 2023-07-17 As the title of the book indicates this is primarily a book on partial differential equations PDEs with two definite slants toward inverse problems and to the inclusion of fractional derivatives The standard paradigm or direct problem is to take a PDE including all coefficients and initial boundary conditions and to determine the solution The inverse problem reverses this approach asking what information about coefficients of the model can be obtained from partial information on the solution Answering this question requires knowledge of the underlying physical model including the exact dependence on material parameters The last feature of the approach taken by the authors is the inclusion of fractional derivatives This is driven by direct physical applications a fractional derivative model often allows greater adherence to physical observations than the traditional integer order case The book also has an extensive historical section and the material that can be called fractional calculus and ordinary differential equations with fractional derivatives This part is accessible to advanced undergraduates with basic knowledge on real and complex analysis At the other end of the spectrum lie nonlinear fractional PDEs that require a

standard graduate level course on PDEs      *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      Frontiers in PDE-Constrained Optimization Harbir Antil, Drew P. Kouri, Martin-D. Lacasse, Denis

Ridzal, 2018-10-12 This volume provides a broad and uniform introduction of PDE constrained optimization as well as to document a number of interesting and challenging applications Many science and engineering applications necessitate the solution of optimization problems constrained by physical laws that are described by systems of partial differential equations PDEs As a result PDE constrained optimization problems arise in a variety of disciplines including geophysics earth and climate science material science chemical and mechanical engineering medical imaging and physics This volume is divided into two parts The first part provides a comprehensive treatment of PDE constrained optimization including discussions of problems constrained by PDEs with uncertain inputs and problems constrained by variational inequalities Special emphasis is placed on algorithm development and numerical computation In addition a comprehensive treatment of inverse problems arising in the oil and gas industry is provided The second part of this volume focuses on the application of PDE constrained optimization including problems in optimal control optimal design and inverse problems among other topics

**Introduction to Fractional and Pseudo-Differential Equations with Singular Symbols** Sabir Umarov, 2015-08-18

The book systematically presents the theories of pseudo differential operators with symbols singular in dual variables fractional order derivatives distributed and variable order fractional derivatives random walk approximants and applications of these theories to various initial and multi point boundary value problems for pseudo differential equations Fractional Fokker Planck Kolmogorov equations associated with a large class of stochastic processes are presented A complex version of the theory of pseudo differential operators with meromorphic symbols based on the recently introduced complex Fourier transform is developed and applied for initial and boundary value problems for systems of complex differential and pseudo differential equations      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      **Synergies in**

**Analysis, Discrete Mathematics, Soft Computing and Modelling** P. V. Subrahmanyam, V. Antony

Vijesh,Balasubramaniam Jayaram,Prakash Veeraraghavan,2023-02-02 This book contains select papers on mathematical analysis and modeling discrete mathematics fuzzy sets and soft computing All the papers were presented at the international conference on FIM28 SCMSPS20 virtually held at Sri Sivasubramaniya Nadar SSN College of Engineering Chennai India and Stella Maris College Autonomous Chennai from November 23 27 2020 The conference was jointly held with the support of the Forum for Interdisciplinary Mathematics Both the invited articles and submitted papers were broadly grouped under three heads Part 1 on analysis and modeling six chapters Part 2 on discrete mathematics and applications six chapters and Part 3 on fuzzy sets and soft computing three chapters      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      *Unified Theory for Fractional and Entire Differential Operators* Arnaud Rougirel,2024-06-27 This monograph proposes a unified theory of the calculus of fractional and standard derivatives by means of an abstract operator theoretic approach By highlighting the axiomatic properties shared by standard derivatives Riemann Liouville and Caputo derivatives the author introduces two new classes of objects The first class concerns differential triplets and differential quadruplets the second concerns boundary restriction operators Instances of boundary restriction operators can be generalized fractional differential operators supplemented with homogeneous boundary conditions The analysis of these operators comprises The computation of adjoint operators The definition of abstract boundary values The solvability of equations supplemented with inhomogeneous abstract linear boundary conditions The analysis of fractional inhomogeneous Dirichlet Problems As a result of this approach two striking consequences are highlighted Riemann Liouville and Caputo operators appear to differ only by their boundary conditions and the boundary values of functions in the domain of fractional operators are closely related to their kernel Unified Theory for Fractional and Entire Differential Operators will appeal to researchers in analysis and those who work with fractional derivatives It is mostly self contained covering the necessary background in functional analysis and fractional calculus      Introduction to Fractional Differential Equations Constantin Milici,Gheorghe Drăgănescu,J. Tenreiro Machado,2018-10-28 This book introduces a series of problems and methods insufficiently discussed in the field of Fractional Calculus a major emerging tool relevant to all areas of scientific inquiry The authors present examples based on symbolic computation written in Maple and Mathematica and address both mathematical and computational areas in the context of mathematical modeling and the generalization of classical integer order methods Distinct from most books the present volume fills the gap between mathematics and computer fields and the transition from integer to fractional order methods      *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

**Fractional Differential Equations** Angelamaria Cardone,Marco Donatelli,Fabio Durastante,Roberto Garrappa,Mariarosa Mazza,Marina Popolizio,2023-06-16 The content of the book collects some contributions related to the talks presented during the INdAM Workshop Fractional Differential Equations Modelling Discretization and Numerical Solvers held in Rome Italy on July 12 14 2021 All contributions are original and not published elsewhere The main topic of the book is fractional calculus a topic that addresses the study and application of integrals and derivatives of noninteger order These operators unlike the classic operators of integer order are nonlocal operators and are better suited to describe phenomena with memory with respect to time and or space Although the basic ideas of fractional calculus go back over three centuries only in recent decades there has been a rapid increase in interest in this field of research due not only to the increasing use of fractional calculus in applications in biology physics engineering probability etc but also thanks to the availability of new and more powerful numerical tools that allow for an efficient solution of problems that until a few years ago appeared unsolvable The analytical solution of fractional differential equations FDEs appears even more difficult than in the integer case Hence numerical analysis plays a decisive role since practically every type of application of fractional calculus requires adequate numerical tools The aim of this book is therefore to collect and spread ideas mainly coming from the two communities of numerical analysts operating in this field the one working on methods for the solution of differential problems and the one working on the numerical linear algebra side to share knowledge and create synergies At the same time the book intends to realize a direct bridge between researchers working on applications and numerical analysts Indeed the book collects papers on applications numerical methods for differential problems of fractional order and related aspects in numerical linear algebra The target audience of the book is scholars interested in recent advancements in fractional calculus

**Approximation Theory XVI** Gregory E. Fasshauer,Marian Neamtu,Larry L. Schumaker,2021-01-04 These proceedings are based on the international conference Approximation Theory XVI held on May 19 22 2019 in Nashville Tennessee The conference was the sixteenth in a series of meetings in Approximation Theory held at various locations in the United States Over 130 mathematicians from 20 countries attended The book contains two longer survey papers on nonstationary subdivision and Prony's method along with 11 research papers on a variety of topics in approximation theory including Balian Low theorems butterfly spline interpolation cubature rules Hankel and Toeplitz matrices phase retrieval positive definite kernels quasi interpolation operators stochastic collocation the gradient conjecture time variant systems and trivariate finite elements The book should be of interest to mathematicians engineers and computer scientists working in approximation theory computer aided geometric design numerical analysis and related approximation areas

*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

**Novel Antibacterial Biomaterials for Medical Applications and Modeling of Drug Release Process** Vesna Mišković-Stanković, Teodor Atanackovic,2024-06-12 This book provides a comprehensive review of synthesis and physicochemical and biological characterization of novel antibacterial biomaterials produced according to original procedures and aimed at medical applications such as wound dressing soft and hard tissue implants drug delivery devices and carriers for cell cultivation It is intended for all researchers working in the fields of biomaterials and biomedical engineering as well as medical professionals science and engineering graduate students academics and industrial researchers Includes in depth discussions on synthesis and physicochemical characterization of novel poly vinyl alcohol based hydrogels aimed at wound dressings and soft tissue implants Explores synthesis and physicochemical characterization of novel bioceramic hydroxyapatite based coatings on metal surface aimed for hard tissue implants Reviews cytotoxicity and antibacterial activity of novel poly vinyl alcohol based hydrogels aimed for wound dressing and soft tissue implants Discusses cytotoxicity and antibacterial activity of bioceramic hydroxyapatite based coatings on metal surface aimed for hard tissue implants Provides original fractional derivative models of drug release process from hydrogels and bioceramic coatings on metal surface and explores diffusion mechanism

*Computer Aided Systems Theory - EUROCAST 2015* Roberto Moreno-Díaz, Franz Pichler, Alexis Quesada-Arencibia,2015-12-17 This volume constitutes the papers presented at the 15th International Conference on Computer Aided Systems Theory EUROCAST 2015 held in February 2015 in Las Palmas de Gran Canaria Spain The total of 107 papers presented were carefully reviewed and selected for inclusion in the book The contributions are organized in topical sections on Systems Theory and Applications Modelling Biological Systems Intelligent Information Processing Theory and Applications of Metaheuristic Algorithms Computer Methods Virtual Reality and Image Processing for Clinical and Academic Medicine Signals and Systems in Electronics Model Based System Design Verification and Simulation Digital



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