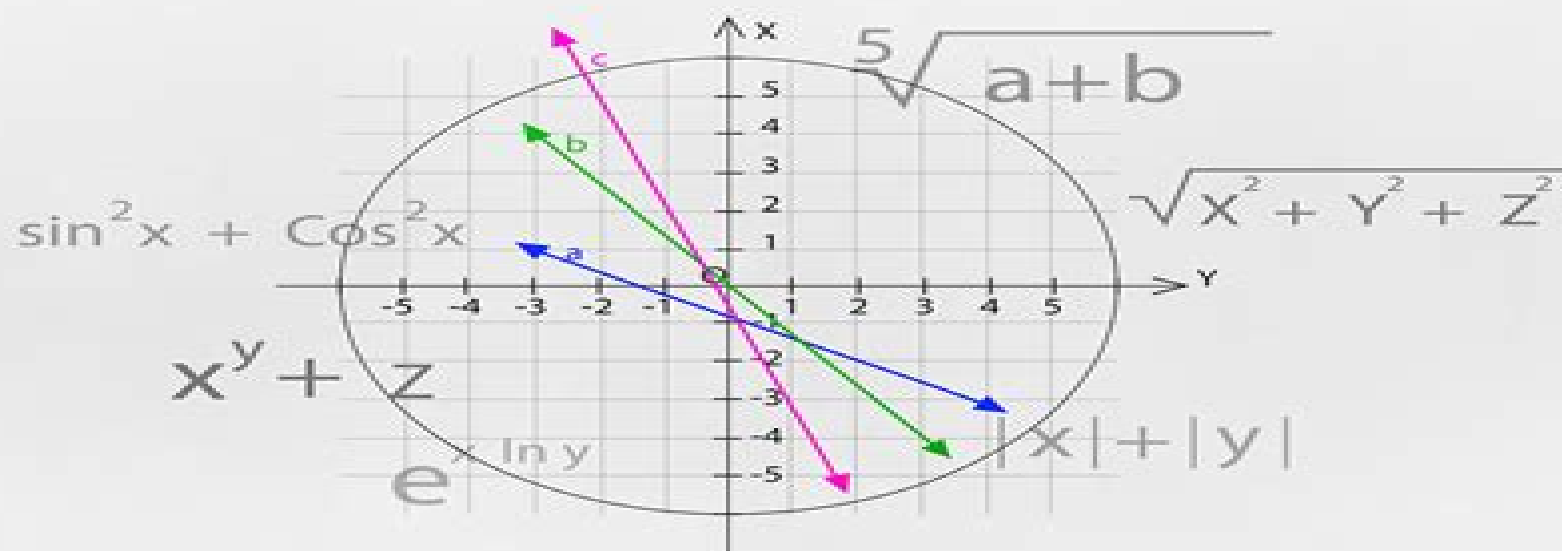


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SPECIAL FUNCTIONS IN FRACTIONAL CALCULUS
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Applications Of Fractional Calculus In Physics

**Praveen Agarwal, Luis Vázquez
Martínez, Ervin K. Lenzi**



Applications Of Fractional Calculus In Physics:

Applications Of Fractional Calculus In Physics Rudolf Hilfer, 2000-03-02 Fractional calculus is a collection of relatively little known mathematical results concerning generalizations of differentiation and integration to noninteger orders While these results have been accumulated over centuries in various branches of mathematics they have until recently found little appreciation or application in physics and other mathematically oriented sciences This situation is beginning to change and there are now a growing number of research areas in physics which employ fractional calculus This volume provides an introduction to fractional calculus for physicists and collects easily accessible review articles surveying those areas of physics in which applications of fractional calculus have recently become prominent **Advances in Fractional Calculus** J.

Sabatier, O. P. Agrawal, J. A. Tenreiro Machado, 2007-07-28 In the last two decades fractional or non integer differentiation has played a very important role in various fields such as mechanics electricity chemistry biology economics control theory and signal and image processing For example in the last three fields some important considerations such as modelling curve fitting filtering pattern recognition edge detection identification stability controllability observability and robustness are now linked to long range dependence phenomena Similar progress has been made in other fields listed here The scope of the book is thus to present the state of the art in the study of fractional systems and the application of fractional differentiation

As this volume covers recent applications of fractional calculus it will be of interest to engineers scientists and applied mathematicians **Fractional Dynamics** Vasily E. Tarasov, 2011-01-04 Fractional Dynamics Applications of Fractional Calculus to Dynamics of Particles Fields and Media presents applications of fractional calculus integral and differential equations of non integer orders in describing systems with long time memory non local spatial and fractal properties Mathematical models of fractal media and distributions generalized dynamical systems and discrete maps non local statistical mechanics and kinetics dynamics of open quantum systems the hydrodynamics and electrodynamics of complex media with non local properties and memory are considered This book is intended to meet the needs of scientists and graduate students in physics mechanics and applied mathematics who are interested in electrodynamics statistical and condensed matter physics quantum dynamics complex media theories and kinetics discrete maps and lattice models and nonlinear dynamics and chaos Dr Vasily E Tarasov is a Senior Research Associate at Nuclear Physics Institute of Moscow State University and an Associate Professor at Applied Mathematics and Physics Department of Moscow Aviation Institute

Fractional Calculus and its Applications in Physics Dumitru Baleanu, Devendra Kumar, 2019-11-15 [Fractional Calculus: An Introduction For Physicists \(2nd Edition\)](#) Richard Herrmann, 2014-01-03 The book presents a concise introduction to the basic methods and strategies in fractional calculus and enables the reader to catch up with the state of the art in this field as well as to participate and contribute in the development of this exciting research area The contents are devoted to the application of fractional calculus to physical problems The fractional concept is applied to subjects in classical

mechanics group theory quantum mechanics nuclear physics hadron spectroscopy and quantum field theory and it will surprise the reader with new intriguing insights This new extended edition now also covers additional chapters about image processing folded potentials in cluster physics infrared spectroscopy and local aspects of fractional calculus A new feature is exercises with elaborated solutions which significantly supports a deeper understanding of general aspects of the theory As a result this book should also be useful as a supporting medium for teachers and courses devoted to this subject

Functional Fractional Calculus Shantanu Das, 2011-06-01 When a new extraordinary and outstanding theory is stated it has to face criticism and skepticism because it is beyond the usual concept The fractional calculus though not new was not discussed or developed for a long time particularly for lack of its application to real life problems It is extraordinary because it does not deal with ordinary differential calculus It is outstanding because it can now be applied to situations where existing theories fail to give satisfactory results In this book not only mathematical abstractions are discussed in a lucid manner with physical mathematical and geometrical explanations but also several practical applications are given particularly for system identification description and then efficient controls The normal physical laws like transport theory electrodynamics equation of motions elasticity viscosity and several others of are based on ordinary calculus In this book these physical laws are generalized in fractional calculus contexts taking heterogeneity effect in transport background the space having traps or islands irregular distribution of charges non ideal spring with mass connected to a pointless mass ball material behaving with viscous as well as elastic properties system relaxation with and without memory physics of random delay in computer network and several others mapping the reality of nature closely The concept of fractional and complex order differentiation and integration are elaborated mathematically physically and geometrically with examples The practical utility of local fractional differentiation for enhancing the character of singularity at phase transition or characterizing the irregularity measure of response function is deliberated Practical results of viscoelastic experiments fractional order controls experiments design of fractional controller and practical circuit synthesis for fractional order elements are elaborated in this book The book also maps theory of classical integer order differential equations to fractional calculus contexts and deals in details with conflicting and demanding initialization issues required in classical techniques The book presents a modern approach to solve the solvable system of fractional and other differential equations linear non linear without perturbation or transformations but by applying physical principle of action and opposite reaction giving approximately exact series solutions Historically Sir Isaac Newton and Gottfried Wilhelm Leibniz independently discovered calculus in the middle of the 17th century In recognition to this remarkable discovery J von Neumann remarked the calculus was the first achievement of modern mathematics and it is difficult to overestimate its importance I think it defines more equivocally than anything else the inception of modern mathematical analysis which is logical development still constitute the greatest technical advance in exact thinking This XXI century has thus started to think exactly for advancement in science technology by growing

application of fractional calculus and this century has started speaking the language which nature understands the best

Fractional Dynamics Vasilij E. Tarasov, 2010 **Fractional Calculus: An Introduction For Physicists (Third Edition)** Richard Herrmann, 2018-07-09 The third edition of this book is designed to carefully and coherently introduce fractional calculus to physicists by applying the ideas to two distinct applications classical problems and multi particle quantum problems There remain many open questions and the field remains an active area of research Dr Herrmann's book is an excellent introduction to this field of study Contemporary Physics The book presents a concise introduction to the basic methods and strategies in fractional calculus which enables the reader to catch up with the state of the art in this field and to participate and contribute in the development of this exciting research area This book is devoted to the application of fractional calculus on physical problems The fractional concept is applied to subjects in classical mechanics image processing folded potentials in cluster physics infrared spectroscopy group theory quantum mechanics nuclear physics hadron spectroscopy up to quantum field theory and will surprise the reader with new intriguing insights This new extended edition includes additional chapters about numerical solution of the fractional Schrödinger equation self similarity and the geometric interpretation of non isotropic fractional differential operators Motivated by the positive response new exercises with elaborated solutions are added which significantly support a deeper understanding of the general aspects of the theory Besides students as well as researchers in this field this book will also be useful as a supporting medium for teachers teaching courses devoted to this subject **Applications in Physics, Part A** Vasily E. Tarasov, 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 fourth volume collects authoritative chapters covering several applications of fractional calculus in physics including classical and continuum mechanics **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

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