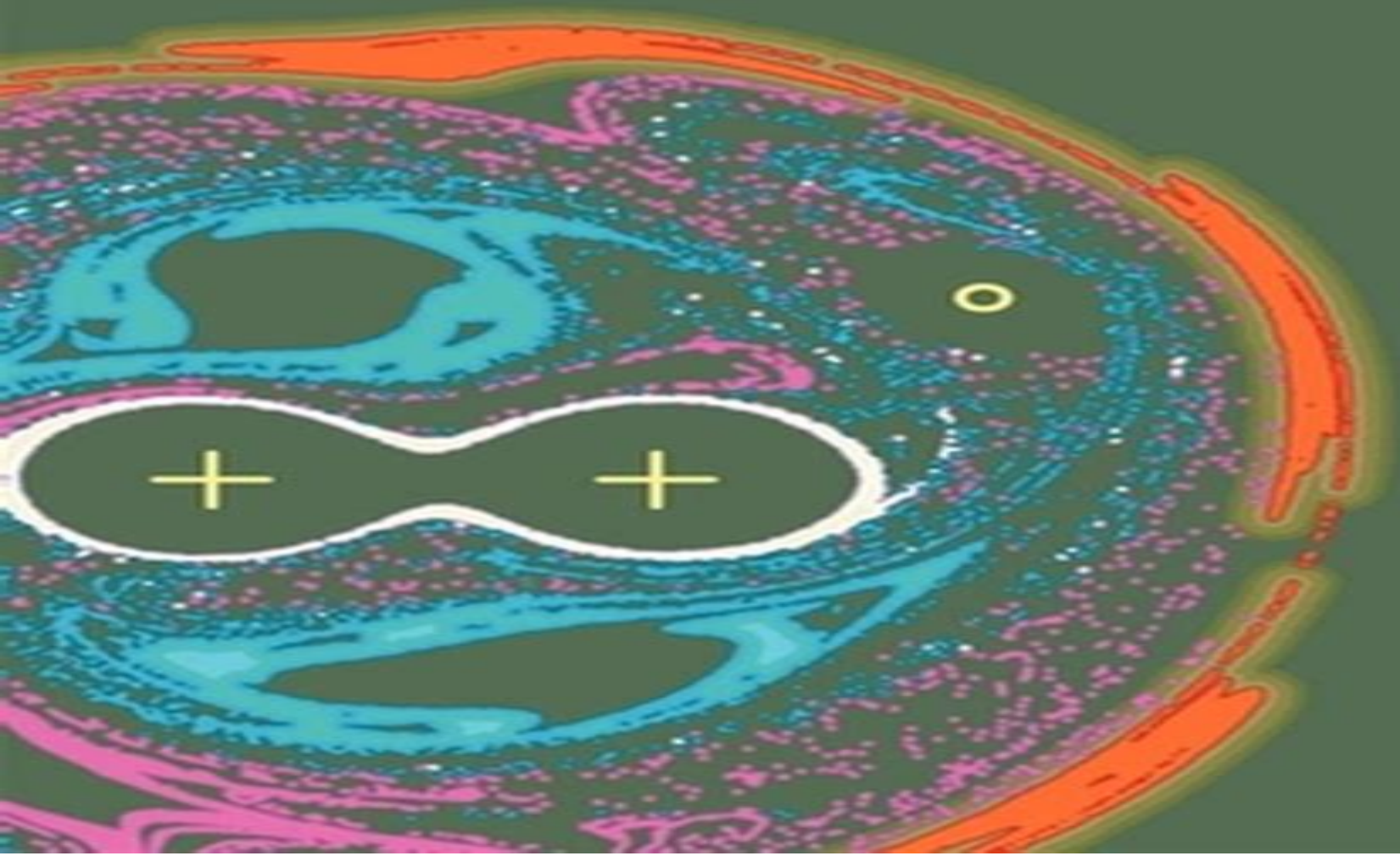


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fractional calculus It brings together results of several recent approaches in generalizing the least action principle and the Euler Lagrange equations to include fractional derivatives The dependence of Lagrangians on generalized fractional operators as well as on classical derivatives is considered along with still more general problems in which integer order integrals are replaced by fractional integrals General theorems are obtained for several types of variational problems for which recent results developed in the literature can be obtained as special cases In particular the authors offer necessary optimality conditions of Euler Lagrange type for the fundamental and isoperimetric problems transversality conditions and Noether symmetry theorems The existence of solutions is demonstrated under Tonelli type conditions The results are used to prove the existence of eigenvalues and corresponding orthogonal eigenfunctions of fractional Sturm Liouville problems

Advanced Methods in the Fractional Calculus of Variations is a self contained text which will be useful for graduate students wishing to learn about fractional order systems The detailed explanations will interest researchers with backgrounds in applied mathematics control and optimization as well as in certain areas of physics and engineering

IUTAM Symposium on Hamiltonian Dynamics, Vortex Structures, Turbulence Alexey V. Borisov, Valery V. Kozlov, Ivan S. Mamaev, Mikhail A. Sokolovskiy, 2007-12-22 This work brings together previously unpublished notes contributed by participants of the IUTAM Symposium on Hamiltonian Dynamics Vortex Structures Turbulence Moscow 25 30 August 2006 The study of vortex motion is of great interest to fluid and gas dynamics since all real flows are vortical in nature applications of the vortex theory are extremely diverse many of them e g aircraft dynamics atmospheric and ocean phenomena being especially important

Long-range Interactions, Stochasticity and Fractional Dynamics Albert C. J. Luo, Valentin Afraimovich, 2011-01-04 In memory of Dr George Zaslavsky Long range Interactions Stochasticity and Fractional Dynamics covers the recent developments of long range interaction fractional dynamics brain dynamics and stochastic theory of turbulence each chapter was written by established scientists in the field The book is dedicated to Dr George Zaslavsky who was one of three founders of the theory of Hamiltonian chaos The book discusses self similarity and stochasticity and fractionality for discrete and continuous dynamical systems as well as long range interactions and diluted networks A comprehensive theory for brain dynamics is also presented In addition the complexity and stochasticity for soliton chains and turbulence are addressed The book is intended for researchers in the field of nonlinear dynamics in mathematics physics and engineering Dr Albert C J Luo is a Professor at Southern Illinois University Edwardsville USA Dr Valentin Afraimovich is a Professor at San Luis Potosi University Mexico

Theory and Applications of Fractional Differential Equations A.A. Kilbas, H. M. Srivastava, J.J. Trujillo, 2006-02-16 This work aims to present in a systematic manner results including the existence and uniqueness of solutions for the Cauchy Type and Cauchy problems involving nonlinear ordinary fractional differential equations

Nonlinear Dynamics and Complexity Valentin Afraimovich, Albert C. J. Luo, Xilin Fu, 2013-11-22 This important collection presents recent advances in nonlinear dynamics including analytical solutions chaos in Hamiltonian systems time

delay uncertainty and bio network dynamics Nonlinear Dynamics and Complexity equips readers to appreciate this increasingly main stream approach to understanding complex phenomena in nonlinear systems as they are examined in a broad array of disciplines The book facilitates a better understanding of the mechanisms and phenomena in nonlinear dynamics and develops the corresponding mathematical theory to apply nonlinear design to practical engineering

Fractional Thermoelasticity Yuriy Povstenko, 2024-08-25 This new edition offers expanded coverage of fractional calculus including Riemann Liouville fractional integrals Riemann Liouville and Caputo fractional derivatives Riesz fractional operators and Mittag Leffler and Wright functions Additionally it provides a comprehensive examination of fractional heat conduction and related theories of thermoelasticity Readers will gain insights into the concepts of time and space nonlocality and their impact on the generalizations of Fourier's law in thermoelasticity This edition presents a detailed formulation of the problem of heat conduction in different domains and the associated thermal stresses covering topics such as the fundamental solution to the Dirichlet problem constant boundary conditions for temperature and the fundamental solution to the physical Neumann problem New insights into time harmonic heat impact on the boundary have also been added Cracks in the framework of fractional thermoelasticity are also considered

Advances in Harmonic Analysis and Operator Theory Alexandre Almeida, Luís Castro, Frank-Olme Speck, 2013-01-31 This volume is dedicated to Professor Stefan Samko on the occasion of his seventieth birthday The contributions display the range of his scientific interests in harmonic analysis and operator theory Particular attention is paid to fractional integrals and derivatives singular hypersingular and potential operators in variable exponent spaces pseudodifferential operators in various modern function and distribution spaces as well as related applications to mention but a few Most contributions were firstly presented in two conferences at Lisbon and Aveiro Portugal in June July 2011

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

Fractional Differential Equations 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 second volume collects authoritative chapters covering the mathematical theory of fractional calculus including ordinary and partial differential equations of fractional order inverse problems and evolution equations

Quantum Mechanics of Non-Hamiltonian and Dissipative Systems Vasily Tarasov, 2008-06-06 Quantum Mechanics of Non Hamiltonian and Dissipative Systems is self contained and can be used by students without a previous course in modern mathematics and physics The book describes the modern structure of the theory and covers the fundamental results of last 15 years The book has been recommended by Russian Ministry of Education as the textbook for graduate students and has been used for graduate student lectures from 1998 to 2006 Requires no preliminary knowledge of graduate and

advanced mathematics Discusses the fundamental results of last 15 years in this theory Suitable for courses for undergraduate students as well as graduate students and specialists in physics mathematics and other sciences

Fractional Calculus And Waves In Linear Viscoelasticity: An Introduction To Mathematical Models (Second Edition) Francesco Mainardi, 2022-08-16 Fractional Calculus and Waves in Linear Viscoelasticity Second Edition is a self contained treatment of the mathematical theory of linear uni axial viscoelasticity constitutive equation and waves with particular regard to models based on fractional calculus It serves as a general introduction to the above mentioned areas of mathematical modeling The explanations in the book are detailed enough to capture the interest of the curious reader and complete enough to provide the necessary background material needed to delve further into the subject and explore the research literature In particular the relevant role played by some special functions is pointed out along with their visualization through plots Graphics are extensively used in the book and a large general bibliography is included at the end This new edition keeps the structure of the first edition but each chapter has been revised and expanded and new additions include a novel appendix on complete monotonic and Bernstein functions that are known to play a fundamental role in linear viscoelasticity This book is suitable for engineers graduate students and researchers interested in fractional calculus and continuum mechanics

Chaos, Complexity And Transport - Proceedings Of The Cct '15 Gwenn Boedec, Christophe Eloy, Xavier Leoncini, 2017-01-05 The main goal is to offer to readers a panorama of recent progress in nonlinear physics complexity and transport with attractive chapters readable by a broad audience It allows to gain an insight into these active fields of research and notably promotes the interdisciplinary studies from mathematics to experimental physics To reach this aim the book collects a selection of contributions to the third edition of the CCT conference Marseilles 1 5 June 2015

Synchrotron Light Daniele Pelliccia, David M. Paganin, 2025-08-25 This textbook provides the first comprehensive overview of synchrotron physics at an introductory level covering the fundamental underpinning physics and combining rigorous treatment of the main concepts with a fresh outlook rich in images and graphics Aimed at students and practitioners alike this book describes all topics in a way that requires only undergraduate knowledge in physics and mathematics and with only a few exceptions all results are derived from first principles The book also emphasizes the relevance of the synchrotron light concept throughout the broader fabric of physics covering areas such as special relativity classical electrodynamics quantum theory astrophysics optical physics classical mechanics and computational physics As well as basic concepts related to the generation of synchrotron light by charged particles in accelerators and their special relativity and classical electrodynamics underpinning this textbook also covers quantum mechanical and quantum optics descriptions of synchrotron light emission the key role played by synchrotron light emission in the cosmos and the generalisation of the concept of synchrotron emission to interactions other than the electromagnetic interaction Taking the reader on a journey across the landscape of physics this book aims to unite a number of often disconnected communities of learners and

practitioners through the connecting thread of synchrotron light *Mathematical Modeling and Supercomputer Technologies* Dmitry Balandin, Konstantin Barkalov, Iosif Meyerov, 2022-12-23 This book constitutes selected and revised papers from the 22nd International Conference on Mathematical Modeling and Supercomputer Technologies MMST 2022 held in Nizhny Novgorod Russia in November 2022 The 20 full papers and 5 short papers presented in the volume were thoroughly reviewed and selected from the 48 submissions They are organized in topical sections on computational methods for mathematical models analysis computation in optimization and optimal control supercomputer simulation **Progress in Ultrafast Intense Laser Science** Andreas Becker, Ruxin Li, See Leang Chin, 2008-12-16 It is a great pleasure that we are now publishing the fourth volume of the series on PUILS through which we have been introducing the progress in ultrafast intense laser science the frontiers of which are rapidly expanding thanks to the progress in ultrashort and high power laser technologies The interdisciplinary nature of this research field is attracting researchers with different expertise and backgrounds As in the previous volumes on PUILS each chapter in the present volume which is in the range of 15-25 pages begins with an introduction in which a clear and concise account of the significance of the topic is given followed by a description of the authors most recent research results All the chapters are peer reviewed The articles of this fourth volume cover a diverse range of the interdisciplinary research field and the topics may be grouped into four categories strong field ionization of atoms Chaps 1-2 excitation ionization and fragmentation of molecules Chaps 3-5 nonlinear intense optical phenomena and attosecond pulses Chaps 6-8 and laser solid interactions and photoemissions Chaps 9-11 *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

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