

Lecture Notes in Physics

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Anomalous Diffusion From Basics to Applications

Proceedings
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Dumitru Baleanu, Jordan Hristov



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Fractional Diffusion Equations and Anomalous Diffusion Luiz Roberto Evangelista,Ervin Kaminski Lenzi,2018-01-25 Presents a unified treatment of anomalous diffusion problems using fractional calculus in a wide range of applications across scientific and technological disciplines

Anomalous Stochastics Michał Chorowski,Tomasz Gubiec,Ryszard Kutner,2025-04-01 This textbook provides a comprehensive exploration of anomalous stochastic processes and extreme events commonly referred to as black swans with a particular focus on multi fractal approaches and continuous time random walks The authors present a systematic examination of the subject tracing its inception and providing a multi directional perspective By drawing on real world experiences in finance physics and technology the book underscores the practical relevance of anomalous stochastic processes for practitioners dealing with real world data from complex systems The content is based on a series of interdisciplinary physics lectures that have been delivered to undergraduate and graduate students at the University of Warsaw for nearly two decades Updated to reflect recent developments this book is a valuable resource for graduate students ambitious undergraduate students and researchers interested in random processes and the practical implications of anomalous processes Familiarity with fundamental principles of probability theory algebra and basic concepts of differential and integral calculus is assumed while a foundational understanding of mathematical statistics stochastic processes and statistical thermodynamics is recommended Additionally each chapter includes practical exercises designed to help readers master the concepts develop practical skills and serve as teaching material

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

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

Anomalous Transport Rainer Klages, Günter Radons, Igor M. Sokolov, 2008-09-02 This multi author reference work provides a unique introduction to the currently emerging highly interdisciplinary field of those transport processes that cannot be described by using standard methods of statistical mechanics It comprehensively summarizes topics ranging from mathematical foundations of anomalous dynamics to the most recent experiments in this field In so doing this monograph extracts and emphasizes common principles and methods from many different disciplines while providing up to date coverage of this new field of research considering such diverse applications as plasma physics glassy material cell science and socio economic aspects The book will be of interest to both theorists and experimentalists in nonlinear dynamics statistical physics and stochastic processes It also forms an ideal starting point for graduate students moving into this area 18 chapters written by internationally recognized experts in this field provide in depth introductions to fundamental aspects of anomalous transport

Treatise on Geomorphology, 2013-02-27 The changing focus and approach of geomorphic research suggests that the time is opportune for a summary of the state of discipline The number of peer reviewed papers published in geomorphic journals has grown steadily for more than two decades and more importantly the diversity of authors with respect to geographic location and disciplinary background geography geology ecology civil engineering computer science geographic information science and others has expanded dramatically As more good minds are drawn to geomorphology and the breadth of the peer reviewed literature grows an effective summary of contemporary geomorphic knowledge becomes increasingly difficult The fourteen volumes of this Treatise on Geomorphology will provide an important reference for users from undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic Information on the historical development of diverse topics within geomorphology provides

context for ongoing research discussion of research strategies equipment and field methods laboratory experiments and numerical simulations reflect the multiple approaches to understanding Earth's surfaces and summaries of outstanding research questions highlight future challenges and suggest productive new avenues for research Our future ability to adapt to geomorphic changes in the critical zone very much hinges upon how well landform scientists comprehend the dynamics of Earth's diverse surfaces This Treatise on Geomorphology provides a useful synthesis of the state of the discipline as well as highlighting productive research directions that Educators and students researchers will find useful Geomorphology has advanced greatly in the last 10 years to become a very interdisciplinary field Undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic will find the answers they need in this broad reference work which has been designed and written to accommodate their diverse backgrounds and levels of understanding Editor in Chief Prof J F Shroder of the University of Nebraska at Omaha is past president of the QG G section of the Geological Society of America and present Trustee of the GSA Foundation while being well respected in the geomorphology research community and having won numerous awards in the field A host of noted international geomorphologists have contributed state of the art chapters to the work Readers can be guaranteed that every chapter in this extensive work has been critically reviewed for consistency and accuracy by the World expert Volume Editors and by the Editor in Chief himself No other reference work exists in the area of Geomorphology that offers the breadth and depth of information contained in this 14 volume masterpiece From the foundations and history of geomorphology through to geomorphological innovations and computer modelling and the past and future states of landform science no stone has been left unturned

Practical Fruits of Econophysics Hideki Takayasu, 2006-01-05 The proceedings of the Third Nikkei Econophysics Symposium Business Models in the 21st Century Risk Management and Expectations for Econophysics held in Tokyo in November 2004 are gathered herein Cutting edge research on the practical application of econophysics is included covering such topics as the predictability of markets the analysis of rare events the mechanism of crashes and bubbles markets correlation and risk management investment strategy stochastic market simulations agent based market simulations wealth distribution and network structures in economics most of which are beyond the scope of standard financial technology New market models and financial data analysis methods are introduced and dynamic aspects of markets and economy are highlighted Professionals researchers and students will find an invaluable resource in this first book of its kind to summarize the latest work in the field of econophysics

Fractional Dynamics in Natural Phenomena and Advanced Technologies Dumitru Baleanu, Jordan Hristov, 2024-01-29 This book addresses different applied problems in order to demonstrate the feasibility of fractional calculus use irrespective of the type of memory kernels used to model varieties of natural phenomena and new processes emerging in advanced technologies In this context the book's focus is on modelling adequate results and interpretations rather than theorems and proofs The book includes a

total of 12 chapters representing various aspects of applied fractional modelling and covering important issues in modern technologies to provide a better understanding of applications of fractional calculus in applied modelling The book will be a versatile source of information for undergraduate and graduate students and for scientists involved in modelling of nonlinear and hereditary phenomena

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