

Nonextensive Entropy

INTERDISCIPLINARY APPLICATIONS

Edited by
Murray Gell-Mann
Constantino Tsallis



A VOLUME IN THE
SANTA FE INSTITUTE STUDIES IN THE SCIENCES OF COMPLEXITY

Nonextensive Entropy Interdisciplinary Applications

Harald Fritzsche



Nonextensive Entropy Interdisciplinary Applications:

Nonextensive Entropy Murray Gell-Mann, Constantino Tsallis, 2004-04-15 A great variety of complex phenomena in many scientific fields exhibit power law behavior reflecting a hierarchical or fractal structure Many of these phenomena seem to be susceptible to description using approaches drawn from thermodynamics or statistical mechanics particularly approaches involving the maximization of entropy and of Boltzmann Gibbs statistical mechanics and standard laws in a natural way The book addresses the interdisciplinary applications of these ideas and also on various phenomena that could possibly be quantitatively describable in terms of these ideas Nonextensive Entropy Murray Gell-Mann, Constantino Tsallis, 2004

Preface Murray Gell Mann and Constantino Tsallis Nonextensive Statistical Mechanics Construction and Physical Interpretation Constantino Tsallis Generalized Nonadditive Information Theory and Quantum Entanglement Sumiyoshi Abe Unifying Laws in Multidisciplinary Power Law Phenomena Fixed Point Universality and Nonextensive Entropy Alberto Robledo Nonextensive Entropies and Sensitivity to Initial Conditions of Complex Systems Marcelo L Lyra Numerical Analysis of Conservative Maps A Possible Foundation of Nonextensive Phenomena Fulvio Baldovin Nonextensive Effects in Hamiltonian S Introduction to Nonextensive Statistical Mechanics Constantino Tsallis, 2023-01-30 This book focuses on

nonextensive statistical mechanics a current generalization of Boltzmann Gibbs BG statistical mechanics Conceived nearly 150 years ago by Maxwell Boltzmann and Gibbs the BG theory one of the greatest monuments of contemporary physics exhibits many impressive successes in physics chemistry mathematics and computational sciences Presently several thousands of publications by scientists around the world have been dedicated to its nonextensive generalization A variety of applications have emerged in complex systems and its mathematical grounding is by now well advanced Since the first edition release thirteen years ago there has been a vast amount of new results in the field all of which have been incorporated in this comprehensive second edition Heavily revised and updated with new sections and figures the second edition remains the go to text on the subject A pedagogical introduction to the BG theory concepts and their generalizations nonlinear dynamics extensivity of the nonadditive entropy global correlations generalization of the standard CLT s complex networks among others is presented in this book as well as a selection of paradigmatic applications in various sciences together with diversified experimental verifications of some of its predictions Introduction to Nonextensive Statistical Mechanics is suitable for students and researchers with an interest in complex systems and statistical physics **Entropy**

Applications in Environmental and Water Engineering Huijuan Cui, Bellie Sivakumar, Vijay P. Singh, 2019-03-07 Entropy theory has wide applications to a range of problems in the fields of environmental and water engineering including river hydraulic geometry fluvial hydraulics water monitoring network design river flow forecasting floods and droughts river network analysis infiltration soil moisture sediment transport surface water and groundwater quality modeling ecosystems modeling water distribution networks environmental and water resources management and parameter estimation Such

applications have used several different entropy formulations such as Shannon Tsallis R nyi Burg Kolmogorov Kapur configurational and relative entropies which can be derived in time space or frequency domains More recently entropy based concepts have been coupled with other theories including copula and wavelets to study various issues associated with environmental and water resources systems Recent studies indicate the enormous scope and potential of entropy theory in advancing research in the fields of environmental and water engineering including establishing and explaining physical connections between theory and reality The objective of this Special Issue is to provide a platform for compiling important recent and current research on the applications of entropy theory in environmental and water engineering The contributions to this Special Issue have addressed many aspects associated with entropy theory applications and have shown the enormous scope and potential of entropy theory in advancing research in the fields of environmental and water engineering

Proceedings of the Third UN/ESA/NASA Workshop on the International Heliophysical Year 2007 and Basic Space Science Hans J. Haubold, A.M. Mathai, 2009-12-01 This book represents Volume II of the Proceedings of the UN ESA NASA Workshop on the International Heliophysical Year 2007 and Basic Space Science hosted by the National Astronomical Observatory of Japan Tokyo 18-22 June 2007 It covers two programme topics explored in this and past workshops of this nature i non extensive statistical mechanics as applicable to astrophysics addressing q distribution fractional reaction and diffusion and the reaction coefficient as well as the Mittag Leffler function and ii the TRIPOD concept developed for astronomical telescope facilities The companion publication Volume I of the proceedings of this workshop is a special issue in the journal Earth Moon and Planets Volume 104 Numbers 1-4 April 2009

Foundations Of Complex Systems: Nonlinear Dynamics, Statistical Physics, Information And Prediction Gregoire Nicolis, Catherine Nicolis, 2007-09-03 Complexity is emerging as a post Newtonian paradigm for approaching a large body of phenomena of concern at the crossroads of physical engineering environmental life and human sciences from a unifying point of view This book outlines the foundations of modern complexity research as it arose from the cross fertilization of ideas and tools from nonlinear science statistical physics and numerical simulation It is shown how these developments lead to an understanding both qualitative and quantitative of the complex systems encountered in nature and in everyday experience and conversely how natural complexity acts as a source of inspiration for progress at the fundamental level

Thermodynamics Ricardo Morales-Rodriguez, 2012-10-03 This book presents the selection of various high level contributions involving thermodynamics The book goes from the fundamentals up to several applications in different scientific fields The content of the book has been classified in six sections Classical Thermodynamics Statistical Thermodynamics Property Prediction in Thermodynamics Material and Products Non Equilibrium and Thermodynamics in Diverse Areas The classification of the book aims to provide to the reader the facility of finding the desired topic included in the book It is expected that this collection of chapters will contribute to the state of the art in the thermodynamics area

Perspectives in Dynamical Systems I: Mechatronics and Life

Sciences Jan Awrejcewicz, 2022-01-04 This volume is part of collection of contributions devoted to analytical and experimental techniques of dynamical systems presented at the 15th International Conference Dynamical Systems Theory and Applications held in Poland on December 2-5 2019 The wide selection of material has been divided into three volumes each focusing on a different field of applications of dynamical systems The broadly outlined focus of both the conference and these books includes bifurcations and chaos in dynamical systems asymptotic methods in nonlinear dynamics dynamics in life sciences and bioengineering original numerical methods of vibration analysis control in dynamical systems optimization problems in applied sciences stability of dynamical systems experimental and industrial studies vibrations of lumped and continuous systems non smooth systems engineering systems and differential equations mathematical approaches to dynamical systems and mechatronics

Murray Gell-mann - Selected Papers Harald Fritzsche, 2010-02-08 Murray Gell Mann is one of the leading physicists of the world He was awarded the Nobel Prize in Physics in 1969 for his work on the classification and symmetries of elementary particles including the approximate SU(3) symmetry of hadrons His list of publications is impressive a number of his papers have become landmarks in physics In 1953 Gell Mann introduced the strangeness quantum number conserved by the strong and electromagnetic interactions but not by the weak interaction In 1954 he and F E Low proposed what was later called the renormalization group In 1958 he and R P Feynman wrote an important article on the V-A theory of the weak interaction In 1961 and 1962 he described his ideas about the SU(3) symmetry of hadrons and its violation leading to the prediction of the particle In 1964 he proposed the quark picture of hadrons In 1971 he and H Fritzsche proposed the exactly conserved color quantum number and in 1972 they discussed what they later called quantum chromodynamics QCD the gauge theory of color These major publications and many others are collected in this volume providing physicists with easy access to much of Gell Mann's work Some of the articles are concerned with his recollections of the history of elementary particle physics in the third quarter of the twentieth century

Complexity, Metastability And Nonextensivity - Proceedings Of The 31st Workshop Of The International School Of Solid State Physics Constantino Tsallis, Andrea Rapisarda, Giorgio Benedek, Christian Beck, 2005-09-23 A broad introduction and overview of current interdisciplinary studies on complexity this volume is an ideal starting point for scientists and graduate students who wish to enter the field The book features a diverse collection of the latest research work not found in a single volume elsewhere Among the highly regarded contributors to the volume are the 2004 Boltzmann medalists E G D Cohen and H E Stanley G Parisi Boltzmann medalist in 1992 and Dirac medalist in 1999 and numerous internationally renowned experts such as S Abe F T Arecchi J P Bouchaud A Coniglio W Ebeling P Grigolini R Mantegna M Paczuski A Robledo L Pietronero A Vespignani and T Vicsek

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. Introduction to Tsallis Entropy Theory in Water Engineering Vijay P.

Singh, 2016-01-05 Focuses On an Emerging Field in Water Engineering. A broad treatment of the Tsallis entropy theory presented from a water resources engineering point of view. Introduction to Tsallis Entropy Theory in Water Engineering fills a growing need for material on this theory and its relevant applications in the area of water engineering. This self-contained

Advanced Engineering Materials and Modeling Ashutosh Tiwari, N. Arul Murugan, Rajeev Ahuja, 2016-08-05 The engineering of materials with advanced features is driving the research towards the design of innovative materials with high performances. New materials often deliver the best solution for structural applications, precisely contributing towards the finest combination of mechanical properties and low weight. The mimicking of nature's principles lead to a new class of structural materials including biomimetic composites, natural hierarchical materials and smart materials. Meanwhile, computational modeling approaches are the valuable tools complementary to experimental techniques and provide significant information at the microscopic level and explain the properties of materials and their very existence. The modeling also provides useful insights to possible strategies to design and fabricate materials with novel and improved properties. The book brings together these two fascinating areas and offers a comprehensive view of cutting edge research on materials interfaces and technologies in engineering materials. The topics covered in this book are divided into 2 parts: Engineering of Materials Characterizations, Applications and Computational Modeling of Materials. The chapters include the following: Mechanical and resistance behavior of structural glass beams, Nanocrystalline metal carbides microstructure characterization, SMA reinforced laminated glass panel, Sustainable sugarcane bagasse cellulose for papermaking, Electrospun scaffolds for cardiac tissue engineering, Bio-inspired composites, Density functional theory for studying extended systems, First principles based approaches for modeling materials, Computer aided materials design, Computational materials for stochastic electromagnets, Computational methods for thermal analysis of heterogeneous materials, Modelling of resistive bilayer structures, Modeling tunneling of superluminal photons through Brain Microtubules, Computer aided surgical workflow modeling, Displaced multiwavelets and splitting algorithms. *Planetary Exploration and Science: Recent Results and Advances* Shuanggen Jin, Nader Haghighipour, Wing-Huen Ip, 2014-11-27 This contributed monograph is the first work to present the latest results and findings on the new topic and hot field of planetary exploration and sciences, e.g. lunar surface.

iron content and mare orientale basalts Earth's gravity field Martian radar exploration crater recognition ionosphere and astrobiology Comet ionosphere exoplanetary atmospheres and planet formation in binaries By providing detailed theory and examples this book helps readers to quickly familiarize themselves with the field In addition it offers a special section on next generation planetary exploration which opens a new landscape for future exploration plans and missions Prof Shuanggen Jin works at the Shanghai Astronomical Observatory Chinese Academy of Sciences China Dr Nader Haghighipour works at the University of Hawaii Manoa USA Prof Wing Huen Ip works at the National Central University Taiwan

Quantum Chemistry Simulation of Biological Molecules Eudencilson L. Albuquerque, Umberto L. Fulco, Ewerton W. S.

Caetano, Valder N. Freire, 2021-02-11 Nano biotechnology crosses the boundaries between physics biochemistry and bioengineering and has profound implications for the biomedical engineering industry This book describes the quantum chemical simulation of a wide variety of molecular systems with detailed analysis of their quantum chemical properties individual molecular configurations and cutting edge biomedical applications Topics covered include the basic properties of quantum chemistry and its conceptual foundations the nanoelectronics and thermodynamics of DNA the optoelectronic properties of the five DNA RNA nucleobase anhydrous crystals and key examples of molecular diode prototypes A wide range of important applications are described including protein binding of drugs such as cholesterol lowering anti Parkinson and anti migraine drugs and recent developments in cancer biology are also discussed This modern and comprehensive text is essential reading for graduate students and researchers in multidisciplinary areas of biological physics chemical physics chemical engineering biochemistry and bioengineering

Prebiotic Photochemistry Franz Saija, Giuseppe Cassone, 2021-06-09 Photochemistry is an important facet in the study of the origin of life and prebiotic chemistry Solar photons are the unique source of the large amounts of energy likely required to initiate the organisation of matter to produce biological life The Miller Urey experiment simulated the conditions thought to be present on the early earth and supported the hypothesis that under such conditions complex organic compounds could be synthesised from simpler inorganic precursors The experiment inspired many others including the production of various alcohols aldehydes and organic acids through UV photolysis of water vapour with carbon monoxide This book covers the photochemical aspects of the study of prebiotic and origin of life chemistry an ideal companion for postgraduates and researchers in prebiotic chemistry photochemistry photobiology chemical biology and astrochemistry

Complexity and the Arrow of Time Charles H. Lineweaver, Paul C. W. Davies, Michael Ruse, 2013-08-08 There is a widespread assumption that the universe in general and life in particular is getting more complex with time This book brings together a wide range of experts in science philosophy and theology and unveils their joint effort in exploring this idea They confront essential problems behind the theory of complexity and the role of life within it what is complexity When does it increase and why Is the universe evolving towards states of ever greater complexity and diversity If so what is the source of this universal enrichment This book addresses those

difficult questions and offers a unique cross disciplinary perspective on some of the most profound issues at the heart of science and philosophy Readers will gain insights in complexity that reach deep into key areas of physics biology complexity science philosophy and religion Decoherence and Entropy in Complex Systems Hans-Thomas Elze,2004-01-20 The contributions to this volume are based on selected lectures from the first international workshop on decoherence information complexity and entropy DICE The aim of this volume is to reflect the growing importance of common concepts behind seemingly different fields such as quantum mechanics general relativity and statistical physics in a form accessible to nonspecialist researchers Many presentations include original results which published here for the first time

Algorithmic Learning Theory Kamalika Chaudhuri,CLAUDIO GENTILE,Sandra Zilles,2015-10-04 This book constitutes the proceedings of the 26th International Conference on Algorithmic Learning Theory ALT 2015 held in Banff AB Canada in October 2015 and co located with the 18th International Conference on Discovery Science DS 2015 The 23 full papers presented in this volume were carefully reviewed and selected from 44 submissions In addition the book contains 2 full papers summarizing the invited talks and 2 abstracts of invited talks The papers are organized in topical sections named inductive inference learning from queries teaching complexity computational learning theory and algorithms statistical learning theory and sample complexity online learning stochastic optimization and Kolmogorov complexity algorithmic information theory

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