

Quantum Mechanics, Diffusion and Chaotic Fractals



M. S. El Naschie
O. E. Rossler
I. Prigogine



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B. G. Sidharth, M.V. Altaisky



Quantum Mechanics Diffusion And Chaotic Fractals:

Quantum Mechanics, Diffusion and Chaotic Fractals Mohammed S. El Naschie, Otto E. RöSSLer, Ilya Prigogine, 1995 The philosophical and analytical silhouette of quantum mechanics can only take shape against a background of classical mechanics As classical mechanics has undergone a radical reappraisal with the discovery of deterministic chaos and fractals then quantum mechanics must be looked at again from the viewpoint of nonlinear dynamics This book does just that not solely from the point of view of quantum chaos but also by looking at the hidden chaotic roots of quantum mechanics Several of the contributions included in the book are concerned with the geometrization of physics and its consequences for quantum mechanics Besides the main theme of the book other equally interesting interpretations are represented including the cellular automaton version of quantum mechanics and a radical endophysical interpretation another contribution looks at the possibility of chaos in Einstein's fundamental equations Some of the papers presented here are destined to be the subject of debate agreement and passionate disagreement for some time Fractals, Quasicrystals, Chaos, Knots and Algebraic Quantum Mechanics Anton Amann, L. Cederbaum, Werner Gans, 2012-12-06 At the end of the workshop on New Theoretical Concepts in Physical Chemistry one of the participants made an attempt to present a first impression of its achievements from his own personal standpoint Apparently his views reflected a general feeling so that the organizers thought they would be suitable as a presentation of the proceedings for future readers That is the background from which this foreword was born The scope of the workshop is a very broad one There are contributions from mathematics physics crystallography chemistry and biology the problems are approached either by means of axiomatic and rigorous methods or at an empirical phenomenological level This same diversification can be found in the new basic concepts presented Some arise from pure theoretical investigation in C algebra or in quantum probability theory others from an analysis of very complex experimental data like nuclear energy levels or processes on the frontier between classical and quantum physics others again have their origin in the discovery of new ordered structures like the icosahedral crystal phases or the knots of DNA molecules others follow from the application of ideas like fractals or chaos to new fields like spectral theory or chemical reactions It is to be expected that readers will have to face the same sort of difficulties as did the participants in understanding such diverse languages in applying themselves to subjects possibly far from their own experience and in grasping highly sophisticated new concepts Stochastic Processes in Quantum Physics Masao Nagasawa, 2012-12-06 Stochastic Processes in Quantum Physics addresses the question What is the mathematics needed for describing the movement of quantum particles and shows that it is the theory of stochastic in particular Markov processes and that a relativistic quantum particle has pure jump sample paths while sample paths of a non relativistic quantum particle are continuous Together with known techniques some new stochastic methods are applied in solving the equation of motion and the equation of dynamics of relativistic quantum particles The problem of the origin of universes is discussed as an application of the theory The text is almost self contained

and requires only an elementary knowledge of probability theory at the graduate level and some selected chapters can be used as sub textbooks for advanced courses on stochastic processes quantum theory and theoretical chemistry

"Thermodynamic" Universe, The: Exploring The Limits Of Physics B G Sidharth, 2008-05-20 Particle Physics and High Energy Physics have stagnated since the early 1970s Now the underlying principle of reductionism so sacred to twentieth century physics is itself being questioned This book examines these tumultuous developments that are leading to a paradigm shift and a new horizon for Physics Presenting the new paradigm in fuzzy spacetime this book is based on some 100 papers published in peer reviewed journals including Foundations of Physics Nuovo Cimento and The International Journal of Modern Physics A E as well as two recently published books The Chaotic Universe Nova Science New York and The Universe of Fluctuations Springer The work had predicted correctly in advance epoch turning observations for example that the Universe is accelerating with a small cosmological constant driven by dark energy when the prevalent line of thinking was the exact opposite Similarly the prediction of a minimum thermodynamic residual energy in the Universe has also been realized more recently Further to a unified description of gravitation and electromagnetism via fluctuations several other features are presented in complete agreement with experiments in sharp contrast to the present ideas which are neither verifiable nor disprovable

The Thermodynamic Universe B. G. Sidharth, 2008 Particle Physics and High Energy Physics have stagnated since the early 1970s Now the underlying principle of reductionism OCo so sacred to twentieth century physics OCo is itself being questioned This book examines these tumultuous developments that are leading to a paradigm shift and a new horizon for Physics Presenting the new paradigm in fuzzy spacetime this book is based on some 100 papers published in peer reviewed journals including Foundations of Physics Nuovo Cimento and The International Journal of Modern Physics A E as well as two recently published books The Chaotic Universe Nova Science New York and The Universe of Fluctuations Springer The work had predicted correctly in advance epoch turning observations for example that the Universe is accelerating with a small cosmological constant driven by dark energy when the prevalent line of thinking was the exact opposite Similarly the prediction of a minimum thermodynamic residual energy in the Universe has also been realized more recently Further to a unified description of gravitation and electromagnetism via fluctuations several other features are presented in complete agreement with experiments in sharp contrast to the present ideas which are neither verifiable nor disprovable

Theoretical Concepts of Quantum Mechanics Mohammad Reza Pahlavani, 2012-02-24 Quantum theory as a scientific revolution profoundly influenced human thought about the universe and governed forces of nature Perhaps the historical development of quantum mechanics mimics the history of human scientific struggles from their beginning This book which brought together an international community of invited authors represents a rich account of foundation scientific history of quantum mechanics relativistic quantum mechanics and field theory and different methods to solve the Schrodinger equation We wish for this collected volume to become an important reference for students and

researchers Quest For A Unified Theory Wolfgang Hofkirchner,2013-10-15 First published in 1999 Volume 13 in the 13 volume set titled World Futures General Evolution Studies with a common focus of the emerging field of general evolutionary theory This volume will expand across disciplines where scholars from new fields will contribute books that propose general evolution theory in novel contexts The essays are structured with five topics Approaches to Unification Concepts of Information Self Organizing Systems Life and Consciousness Society and Technology **Chaos and Diffusion in Hamiltonian Systems** ,1995 *The Quest for a Unified Theory of Information* Wolfgang Hofkirchner,1999 First Published in 1999 Routledge is an imprint of Taylor Francis an informa company **Microscopic Chaos, Fractals and Transport in Nonequilibrium Statistical Mechanics** Rainer Klages,2007 A valuable introduction for newcomers as well as an important reference and source of inspiration for established researchers this book provides an up to date summary of central topics in the field of nonequilibrium statistical mechanics and dynamical systems theory Understanding macroscopic properties of matter starting from microscopic chaos in the equations of motion of single atoms or molecules is a key problem in nonequilibrium statistical mechanics Of particular interest both for theory and applications are transport processes such as diffusion reaction conduction and viscosity Recent advances towards a deterministic theory of nonequilibrium statistical physics are summarized Both Hamiltonian dynamical systems under nonequilibrium boundary conditions and non Hamiltonian modelings of nonequilibrium steady states by using thermal reservoirs are considered The surprising new results include transport coefficients that are fractal functions of control parameters fundamental relations between transport coefficients and chaos quantities and an understanding of nonequilibrium entropy production in terms of fractal measures and attractors The theory is particularly useful for the description of many particle systems with properties in between conventional thermodynamics and nonlinear science as they are frequently encountered on nanoscales Frontiers of Fundamental Physics 4 B. G. Sidharth,M.V. Altaisky,2012-12-06 This symposium was organized at the B M Birla Science Centre Hyderabad India and provided a platform for frontier physicists to exchange ideas and review the latest work and developments on a variety of interrelated topics A feature of the symposium as well as the proceedings is the B M Birla Memorial Lecture by Nobel Laureate Professor Gerard t Hooft There were participants from the USA several European countries Russia and CIS countries South Africa Japan India and elsewhere of whom some forty scientists presented papers Spanning a wide range of contemporary issues in fundamental physics from string theory to cosmology the proceedings present many of these talks and contributions **Fractal Time** Susie Vrobel,2011 This book provides an interdisciplinary introduction to the notion of fractal time starting from scratch with a philosophical and perceptual puzzle How subjective duration varies depending on the way we embed current content into contexts is explained The complexity of our temporal perspective depends on the number of nestings performed i e on the number of contexts taken into account This temporal contextualization is described against the background of the notion of fractal time Our temporal interface the Now is

portrayed as a fractal structure which arises from the distribution of content and contexts in two dimensions the length and the depth of time The leitmotif of the book is the notion of simultaneity which determines the temporal structure of our interfaces Recent research results are described which present and discuss a number of distorted temporal perspectives It is suggested that dynamical diseases arise from unsuccessful nesting attempts i e from failed contextualization Successful nesting by contrast manifests itself in a win win handshake between the observer participant and his chosen context The answer as to why a watched kettle never boils has repercussions in many a discipline It would be of immense interest to anyone who works in the fields of cognitive and complexity sciences psychology and the neurosciences social medicine philosophy and the arts

Mathematics of Complexity and Dynamical Systems Robert A. Meyers, 2011-10-05 Mathematics of Complexity and Dynamical Systems is an authoritative reference to the basic tools and concepts of complexity systems theory and dynamical systems from the perspective of pure and applied mathematics Complex systems are systems that comprise many interacting parts with the ability to generate a new quality of collective behavior through self organization e g the spontaneous formation of temporal spatial or functional structures These systems are often characterized by extreme sensitivity to initial conditions as well as emergent behavior that are not readily predictable or even completely deterministic The more than 100 entries in this wide ranging single source work provide a comprehensive explication of the theory and applications of mathematical complexity covering ergodic theory fractals and multifractals dynamical systems perturbation theory solitons systems and control theory and related topics Mathematics of Complexity and Dynamical Systems is an essential reference for all those interested in mathematical complexity from undergraduate and graduate students up through professional researchers

Scale Relativity And Fractal Space-time: A New Approach To Unifying Relativity And Quantum Mechanics Laurent Nottale, 2011-06-17 This book provides a comprehensive survey of the development of the theory of scale relativity and fractal space time It suggests an original solution to the disunified nature of the classical quantum transition in physical systems enabling the basis of quantum mechanics on the principle of relativity provided this principle is extended to scale transformations of the reference system In the framework of such a newly generalized relativity theory including position orientation motion and now scale transformations the fundamental laws of physics may be given a general form that unifies and thus goes beyond the classical and quantum regimes taken separately A related concern of this book is the geometry of space time which is described as being fractal and nondifferentiable It collects and organizes theoretical developments and applications in many fields including physics mathematics astrophysics cosmology and life sciences

Causality and Locality in Modern Physics G. Hunter, Stanley Jeffers, J.P. Vigiér, 2013-06-29 The Symposium entitled Causality and Locality in Modern Physics and Astronomy Open Questions and Possible Solutions was held at York University Toronto during the last week of August 1997 It was a sequel to a similar symposium entitled The Present Status of the Quantum Theory of Light held at the same venue in August 1995 These symposia came about as a result of discussions

between Professor Stanley Jeffers and colleagues on the International Organizing Committee Professor Jeffers was the executive local organizer of the symposia The 1997 symposium attracted over 120 participants representing 26 different countries and academic institutions The broad theme of both symposia was the enigma of modern physics the non local and possibly superluminal interactions implied by quantum mechanics the structure of fundamental particles including the photon the reconciliation of quantum mechanics with the theory of relativity and the nature of gravity and inertia Jean Pierre Vigiér was the guest of honour at both symposia He was a lively contributor to the discussions of the presentations The presentations were made as 30 minute lectures or during an evening poster session Some participants did not submit a written account of their presentation at the symposium and not all of the articles submitted for the Proceedings could be included because of the publisher's page limit The titles and authors of the papers that had to be excluded are listed in an appendix

Quantum Gravity Rodrigo Sobreiro, 2012-02-15 The unification between gravity and quantum field theory is one of the major problems in contemporary fundamental Physics It exists for almost one century but a final answer is yet to be found Although string theory and loop quantum gravity have brought many answers to the quantum gravity problem they also came with a large set of extra questions In addition to these last two techniques many other alternative theories have emerged along the decades This book presents a series of selected chapters written by renowned authors Each chapter treats gravity and its quantization through known and alternative techniques aiming a deeper understanding on the quantum nature of gravity Quantum Gravity is a book where the reader will find a fine collection of physical and mathematical concepts an up to date research about the challenging puzzle of quantum gravity

Handbook of Applications of Chaos Theory Christos H. Skiadas, Charilaos Skiadas, 2017-12-19 In addition to explaining and modeling unexplored phenomena in nature and society chaos uses vital parts of nonlinear dynamical systems theory and established chaotic theory to open new frontiers and fields of study Handbook of Applications of Chaos Theory covers the main parts of chaos theory along with various applications to diverse areas Expert contributors from around the world show how chaos theory is used to model unexplored cases and stimulate new applications Accessible to scientists engineers and practitioners in a variety of fields the book discusses the intermittency route to chaos evolutionary dynamics and deterministic chaos and the transition to phase synchronization chaos It presents important contributions on strange attractors self exciting and hidden attractors stability theory Lyapunov exponents and chaotic analysis It explores the state of the art of chaos in plasma physics plasma harmonics and overtone coupling It also describes flows and turbulence chaotic interference versus decoherence and an application of microwave networks to the simulation of quantum graphs The book proceeds to give a detailed presentation of the chaotic rogue and noisy optical dissipative solitons parhellic like circle and chaotic light scattering and interesting forms of the hyperbolic prism the Poincaré disc and foams It also covers numerous application areas from the analysis of blood pressure data and clinical digital pathology to chaotic pattern recognition to economics to musical arts and research

Scaling,

Fractals and Wavelets Patrice Abry, Paolo Goncalves, Jacques Levy Vehel, 2013-03-01 Scaling is a mathematical transformation that enlarges or diminishes objects The technique is used in a variety of areas including finance and image processing This book is organized around the notions of scaling phenomena and scale invariance The various stochastic models commonly used to describe scaling self similarity long range dependence and multi fractals are introduced These models are compared and related to one another Next fractional integration a mathematical tool closely related to the notion of scale invariance is discussed and stochastic processes with prescribed scaling properties self similar processes locally self similar processes fractionally filtered processes iterated function systems are defined A number of applications where the scaling paradigm proved fruitful are detailed image processing financial and stock market fluctuations geophysics scale relativity and fractal time space

Atomicity through Fractal Measure Theory Alina Gavriluț, Ioan Mercheș, Maricel Agop, 2019-11-02 This book presents an exhaustive study of atomicity from a mathematics perspective in the framework of multi valued non additive measure theory Applications to quantum physics and more generally to the fractal theory of the motion are highlighted The study details the atomicity problem through key concepts such as the atom pseudoatom atomic nonatomic measures and different types of non additive set valued multifunctions Additionally applications of these concepts are brought to light in the study of the dynamics of complex systems The first chapter prepares the basics for the next chapters In the last chapter applications of atomicity in quantum physics are developed and new concepts such as the fractal atom are introduced The mathematical perspective is presented first and the discussion moves on to connect measure theory and quantum physics through quantum measure theory New avenues of research such as fractal multifractal measure theory with potential applications in life sciences are opened

A Statistical Theory of Gravitating Body Formation in Extrasolar Systems Alexander Krot, 2021-02-22 This book develops the statistical mechanics of the formation of gravitating cosmogonical bodies in the investigation of our solar system and other exoplanetary systems The first part of the text acquaints the reader with the developing statistical theory of gravitating cosmogonical body formation Within the framework of this theory the models and evolution equations of the statistical mechanics are proposed while well known problems of gravitational condensation of infinite distributed cosmic substances are solved on the basis of the proposed statistical model of spheroidal bodies The second section of the book details theoretical and practical approaches to investigating the solar system and other exoplanetary systems In particular it considers a new universal stellar law USL for extrasolar planetary systems connecting the temperature the size and the mass of each star Within the framework of the developed statistical theory a new law generalizing the famous law of O Schmidt for the distribution of planetary in the solar system is also provided

Embracing the Song of Term: An Emotional Symphony within **Quantum Mechanics Diffusion And Chaotic Fractals**

In a world taken by monitors and the ceaseless chatter of instantaneous transmission, the melodic elegance and mental symphony developed by the written term frequently fade into the background, eclipsed by the constant noise and distractions that permeate our lives. Nevertheless, located within the pages of **Quantum Mechanics Diffusion And Chaotic Fractals** a stunning literary prize overflowing with organic feelings, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, that interesting masterpiece conducts viewers on an emotional trip, well unraveling the hidden tunes and profound impact resonating within each carefully constructed phrase. Within the depths of this emotional evaluation, we shall investigate the book is central harmonies, analyze its enthralling publishing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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