

Non-linear and Collective Phenomena in Quantum Physics

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Diederik Aerts, Marek Czachor, Thomas Durt



Non Linear And Collective Phenomena In Quantum Physics:

Non-linear and Collective Phenomena in Quantum Physics J. L. Gervais, Maurice Jacob, 1983 <http://www.worldscientific.com/worldscibooks/10.1142/0040>

Probing The Structure Of Quantum Mechanics: Nonlinearity, Nonlocality, Computation And Axiomatics Diederik Aerts, Marek Czachor, Thomas Durt, 2002-06-11 During the last decade scientists working in quantum theory have been engaging in promising new fields such as quantum computation and quantum information processing and have also been reflecting on the possibilities of nonlinear behavior on the quantum level These are challenging undertakings because 1 they will result in new solutions to important technical and practical problems that were unsolvable by the classical approaches for example quantum computers can calculate problems that are intractable if one uses classical computers and 2 they open up new hard problems of a fundamental nature that touch the foundation of quantum theory itself for example the contradiction between locality and nonlinearity and the interpretation of quantum computing as a universal process In this book one can distinguish two main streams of research to approach the just mentioned problem field 1 a theoretical structural part which concentrates on the elaboration of a nonlinear quantum mechanics and the fundamentals of quantum computation and 2 a theoretical experimental part which focuses on the theoretical aspects of applications that arise from new technology and novel research perspectives such as quantum optics and quantum cryptography Particular attention is also paid to the measurement problem the classical limit and alternative interpretations such as the hidden measurement approach

High Energy Physics Index, 1994

Quantum Mechanics in Nonlinear Systems Xiao-Feng Pang, Yuan-Ping Feng, 2005 In the history of physics and science quantum mechanics has served as the foundation of modern science This book discusses the properties of microscopic particles in nonlinear systems principles of the nonlinear quantum mechanical theory and its applications in condensed matter polymers and biological systems The book is essentially composed of three parts The first part presents a review of linear quantum mechanics as well as theoretical and experimental fundamentals that establish the nonlinear quantum mechanical theory The theory itself and its essential features are covered in the second part In the final part extensive applications of this theory in physics biology and polymer are introduced The whole volume forms a complete system of nonlinear quantum mechanics The book is intended for researchers graduate students as well as upper level undergraduates

Nonlinear Dynamics and Chaos Steven H Strogatz, 2024-01-16 The goal of this third edition of *Nonlinear Dynamics and Chaos With Applications to Physics Biology Chemistry and Engineering* is the same as previous editions to provide a good foundation and a joyful experience for anyone who d like to learn about nonlinear dynamics and chaos from an applied perspective The presentation stresses analytical methods concrete examples and geometric intuition The theory is developed systematically starting with first order differential equations and their bifurcations followed by phase plane analysis limit cycles and their bifurcations and culminating with the Lorenz equations chaos iterated maps period doubling renormalization fractals and strange attractors

The prerequisites are comfort with multivariable calculus and linear algebra as well as a first course in physics. Ideas from probability, complex analysis and Fourier analysis are invoked but they are either worked out from scratch or can be safely skipped or accepted on faith. Changes to this edition include substantial exercises about conceptual models of climate change, an updated treatment of the SIR model of epidemics and amendments based on recent research about the Selkov model of oscillatory glycolysis. Equations, diagrams and every word has been reconsidered and often revised. There are also about 50 new references, many of them from the recent literature. The most notable change is a new chapter. Chapter 13 is about the Kuramoto model. The Kuramoto model is an icon of nonlinear dynamics. Introduced in 1975 by the Japanese physicist Yoshiki Kuramoto, his elegant model is one of the rare examples of a high dimensional nonlinear system that can be solved by elementary means. Students and teachers have embraced the book in the past; its general approach and framework continue to be sound.

Nonlinear Equations in Physics and Mathematics P. Barut, 2012-12-06. This is the third Volume in a series of books devoted to the interdisciplinary area between mathematics and physics, all emanating from the Advanced Study Institutes held in Istanbul in 1970, 1972 and 1977. We believe that physics and mathematics can develop best in harmony and in close communication and cooperation with each other and are sometimes inseparable. With this goal in mind, we tried to bring mathematicians and physicists together to talk and lecture to each other, this time in the area of nonlinear equations. The recent progress and surge of interest in nonlinear ordinary and partial differential equations has been impressive. At the same time, novel and interesting physical applications multiply. There is a unifying element brought about by the same characteristic nonlinear behavior occurring in very widely different physical situations, as in the case of solitons, for example. This Volume gives, we believe, a very good indication over all of this recent progress, both in theory and applications, and over current research activity and problems. The 1977 Advanced Study Institute was sponsored by the NATO Scientific Affairs Division, The University of the Bosphorus and the Turkish Scientific and Technical Research Council. We are deeply grateful to these Institutions for their support and to lecturers and participants for their hard work and enthusiasm, which created an atmosphere of lively scientific discussions.

Passion For Physics, A: Essays In Honor Of Geoffrey Chew, Including An Interview With Chew Carleton Detar, J. Finkelstein, Chung-i Tan, 1985-01-02. High energy physics United States. Congress. House. Committee on Science and Technology. Task Force on Science Policy, 1986.

Introduction to Gauge Field Theories M. Chaichian, N. F. Nelipa, 2012-12-06. In recent years, gauge fields have attracted much attention in elementary particle physics. The reason is that great progress has been achieved in solving a number of important problems of field theory and elementary particle physics by means of the quantum theory of gauge fields. This refers in particular to constructing unified gauge models and theory of strong interactions between the elementary particles. This book expounds the fundamentals of the quantum theory of gauge fields and its application for constructing unified gauge models and the theory of strong interactions. In writing the book, the authors' aim was three-fold: firstly to outline the basic ideas underlying

the unified gauge models and the theory of strong interactions secondly to discuss the major unified gauge models the theory of strong interactions and their experimental implications and thirdly to acquaint the reader with a rather special mathematical approach path in the integral method which has proved to be well suited for constructing the quantum theory of gauge fields Gauge fields are a vigorously developing area In this book we have selected for presentation the more or less traditional and commonly accepted material There also exist a number of different approaches which are presently being developed The most important of them are touched upon in the Conclusion

Introduction to the Theory of Complex Systems Stefan Thurner, Rudolf Hanel, Peter Klimek, 2018-09-05 This book is a comprehensive introduction to quantitative approaches to complex adaptive systems Practically all areas of life on this planet are constantly confronted with complex systems be it ecosystems societies traffic financial markets opinion formation and spreading or the internet and social media Complex systems are systems composed of many elements that interact strongly with each other which makes them extremely rich dynamical systems showing a huge range of phenomena Properties of complex systems that are of particular importance are their efficiency robustness resilience and proneness to collapse The quantitative tools and concepts needed to understand the co evolutionary nature of networked systems and their properties are challenging The book gives a self contained introduction to these concepts so that the reader will be equipped with a toolset that allows them to engage in the science of complex systems Topics covered include random processes of path dependent processes co evolutionary dynamics dynamics of networks the theory of scaling and approaches from statistical mechanics and information theory The book extends beyond the early classical literature in the field of complex systems and summarizes the methodological progress made over the past 20 years in a clear structured and comprehensive way

Nonlinear Dynamics and Chaos with Student Solutions Manual Steven H. Strogatz, 2018-09-21 This textbook is aimed at newcomers to nonlinear dynamics and chaos especially students taking a first course in the subject The presentation stresses analytical methods concrete examples and geometric intuition The theory is developed systematically starting with first order differential equations and their bifurcations followed by phase plane analysis limit cycles and their bifurcations and culminating with the Lorenz equations chaos iterated maps period doubling renormalization fractals and strange attractors

Nonlinear Dynamics and Renormalization Group Israel Michael Sigal, Catherine Sulem, 2001 This book contains the proceedings from the workshop Nonlinear Dynamics and Renormalization Group held at the Centre de recherches mathématiques CRM in Montréal Canada as part of the year long program devoted to mathematical physics In the book active researchers in the fields of nonlinear partial differential equations and renormalization group contribute recent results on topics such as Ginzburg Landau equations and blow up of solutions of the nonlinear Schrödinger equations quantum resonances and renormalization group analysis in constructive quantum field theory This volume offers the latest research in the rapidly developing fields of nonlinear equations and renormalization group

Gauge Field Theories Mike Guidry, 2008-07-11 Acquaints readers with

the main concepts and literature of elementary particle physics and quantum field theory In particular the book is concerned with the elaboration of gauge field theories in nuclear physics the possibility of creating fundamental new states of matter such as an extended quark gluon plasma in ultra relativistic heavy ion collisions and the relation of gauge theories to the creation and evolution of the universe Divided into three parts it opens with an introduction to the general principles of relativistic quantum field theory followed by the essential ingredients of gauge fields for weak and electromagnetic interactions quantum chromodynamics and strong interactions The third part is concerned with the interface between modern elementary particle physics and applied disciplines such as nuclear physics astrophysics and cosmology Includes references and numerous exercises

Nonlinear Electrodynamics in Biological Systems W. Adey, 2012-12-06 The past half century has seen an extraordinary growth in the fields of cellular and molecular biology From simple morphological concepts of cells as the essential units of living matter there has been an ever sharper focus on functional organization of living systems with emphasis on molecular dynamics Thus life forms have come to be defined increasingly in terms of metabolism growth reproduction and responses to environmental perturbations Since these properties occur in varying degrees in systems below the level of cellular organization there has been a blurring of older models that restricted the concepts of life to cellular systems At the same time a search has begun for elemental aspects of molecular and atomic behavior that might better define properties common to all life forms This search has led to an examination of nonlinear behavior in biological macromolecules whether in response to electrical or chemical stimulation for example or as a means of signaling along a molecular chain or as a means of energy transfer Experimental knowledge in this area has grown rapidly in the past decade and in some respects has outstripped theoretical models adequate to explain these new observations Nevertheless it can be claimed that there is now an impressive body of experiments implicating nonlinear nonequilibrium processes as fundamental steps in sequential operations of biological systems

Energy Research Abstracts , 1986

Emerging Frontiers in Nonlinear Science Panayotis G. Kevrekidis, Jesús Cuevas-Maraver, Avadh Saxena, 2020-05-29 This book explores the impact of nonlinearity on a broad range of areas including time honored fields such as biology geometry and topology but also modern ones such as quantum mechanics networks metamaterials and artificial intelligence The concept of nonlinearity is a universal feature in mathematics physics chemistry and biology and is used to characterize systems whose behavior does not amount to a superposition of simple building blocks but rather features complex and often chaotic patterns and phenomena Each chapter of the book features a synopsis that not only recaps the recent progress in each field but also charts the challenges that lie ahead This interdisciplinary book presents contributions from a diverse group of experts from various fields to provide an overview of each field's past present and future It will appeal to both beginners and seasoned researchers in nonlinear science numerous areas of physics optics quantum physics biophysics and applied mathematics ODEs PDEs dynamical systems machine learning as well as engineering

Encyclopedia of

Nonlinear Science Alwyn Scott, 2006-05-17 In 438 alphabetically arranged essays this work provides a useful overview of the core mathematical background for nonlinear science as well as its applications to key problems in ecology and biological systems chemical reaction diffusion problems geophysics economics electrical and mechanical oscillations in engineering systems lasers and nonlinear optics fluid mechanics and turbulence and condensed matter physics among others From Theoretical Physics to Biology M. Marois, 1973-12-13 Physics Briefs, 1993 Geometrodynamics of Gauge Fields Eckehard W. Mielke, 2017-01-22 This monograph aims to provide a unified geometrical foundation of gauge theories of elementary particle physics The underlying geometrical structure is unfolded in a coordinate free manner via the modern mathematical notions of fibre bundles and exterior forms Topics such as the dynamics of Yang Mills theories instanton solutions and topological invariants are included By transferring these concepts to local space time symmetries generalizations of Einstein's theory of gravity arise in a Riemann Cartan space with curvature and torsion It provides the framework in which the broken Poincaré gauge theory the Rainich geometrization of the Einstein Maxwell system and higher dimensional non abelian Kaluza Klein theories are developed Since the discovery of the Higgs boson concepts of spontaneous symmetry breaking in gravity have come again into focus and in this revised edition these will be exposed in geometric terms Quantizing gravity remains an open issue formulating it as a de Sitter type gauge theory in the spirit of Yang Mills some new progress in its topological form is presented After symmetry breaking Einstein's standard general relativity with cosmological constant emerges as a classical background The geometrical structure of BRST quantization with non propagating topological ghosts is developed in some detail

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