Series in Modern Condensed Matter Physics

Vol. 13

QUANTUM DISSIPATIVE SYSTEMS

Third Edition

Ulrich Weiss

World Scientific

Quantum Dissipative Systems Series In Modern Condensed Matter Physics Volume 13

Kwong-kit Choi

Quantum Dissipative Systems Series In Modern Condensed Matter Physics Volume 13:

Quantum Dissipative Systems (Third Edition) Ulrich Weiss, 2008-03-04 Major advances in the quantum theory of macroscopic systems in combination with stunning experimental achievements have brightened the field and brought it to the attention of the general community in natural sciences Today working knowledge of dissipative quantum mechanics is an essential tool for many physicists This book originally published in 1990 and republished in 1999 as an enlarged second edition delves much deeper than ever before into the fundamental concepts methods and applications of quantum dissipative systems including the most recent developments In this third edition 26 chapters from the second edition contain additional material and several chapters are completely rewritten It deals with the phenomena and theory of decoherence relaxation and dissipation in quantum mechanics that arise from the interaction with the environment In so doing a general path integral description of equilibrium thermodynamics and nonequilibrium dynamics is developed **Chaos Theory** Ioannis Dimotikalis, Christos H. Skiadas, Charilaos Skiadas, 2011 Algorithmic sound composition using coupled cellular automata Jaime Serguera and Eduardo R Miranda Efficient large scale forcing in finite difference simulations of steady isotropic turbulence Ryo Onishi Yuya Baba and Keiko Takahashi Rendering statistical significance of information flow measures Angeliki Papana and Dimitris Kugiumtzis Complexity theory and physical unification from microscopic to macroscopic level G P Pavlos und weitere Regular variation Paretian distributions and the interplay of light and heavy tails in the fractality of asymptotic models Dinis D Pestana Sandra M Aleixo and J Leonel Rocha Tools for investigation of dynamics of DC DC converters within Matlab Simulink Dmitry Pikulin Chaos as compositional order Eleri Angharad Pound Beta p q Cantor sets determinism and randomness I Leonel Rocha Sandra M Aleixo and Dinis D Pestana Predicting chaos with second method of Lyapunov Vladimir B Ryabov Analysis of homoclinic bifurcation in Duffing oscillator under two frequency excitation peculiarity of using Melnikov method in combination with averaging technique Vladimir Ryabov and Kenta Fukushima Exploring life expectancy limits first exit time modeling parameter analysis and forecasts Christos H Skiadas and Charilaos Skiadas Composing chaotic music from the letter m Anastasios D Sotiropoulos On the timbre of chaotic algorithmic sounds Dimitrios A Sotiropoulos Anastasios D Sotiropoulos and Vaggelis D Sotiropoulos The rainbow effect on composing chaotic algorithmic music Vaggelis D Sotiropoulos A highly chaotic attractor for a dual channel single attractor private communication system Banlue Srisuchinwong and Buncha Munmuangsaen Manifestation of chaos in collective models of nuclei Pavel Stransky und weitere Importance of the chaos for computational processes of collective intelligence in social structures Tadeusz Ted Szuba Complex signal generators based on capacitors and on piezoelectric loads Horia Nicolai L Teodorescu and Victor P Cojocaru Drift waves synchronization by using an external signal The stabilization of a chaotic plasma turbulence C L Xaplanteris and E Filippaki Chaos game technique as a tool for the analysis of natural geomorphological features G Zibret and T Verbovsek Dynamics of a steel turning process Grzegorz Litak and Rafal Rusinek

Advances In Multi-photon Processes And Spectroscopy, Vol 21 Yuichi Fujimura, Sheng-hsien Lin, Albert A Villaeys, 2013-12-12 This volume presents recent progress and perspectives in multi photon processes and spectroscopy of atoms ions molecules and solids The subjects in the series cover the experimental and theoretical investigations in the interdisciplinary research fields of natural science including chemistry physics bioscience and material science This volume is the latest volume in a series that is a pioneer in compiling review articles of nonlinear interactions of photons and matter It has made an essential contribution to the development and promotion of the related research fields In view of the rapid growth in multi photon processes and multi photon spectroscopy care has been taken to ensure that the review articles contained in the series are readable not only by active researchers but also those who are not yet experts but intend to enter Quantum Processes in Biology José Antonio Fornés, 2024-06-05 In recent years extensive research on stochastic processes such as neuron networks molecular motors dynamics models anomalous diffusion and disordered media has led to the development of various methods for applying the Classical and Quantum Smoluchowski Equation to these phenomena This book focuses on presenting the solution to the Fokker Planck equation using the Crank Nicholson formalism This method is particularly effective for handling systems with numerous interactions requiring vector and matrix oriented approaches suitable for implementation in Matlab Among the topics treated in the book are Dynamics of protons in DNA Photosynthesis and the quantum mechanochemical model Entanglement coherence and decoherence Excitons in the Fenna Mathews Olson complex and Energy exchange between cells The author has made an incredible work in facilitating the understanding of these complex topics This book includes a brief and clear explanation of the Quantum theory and also includes code to build useful software to use in research environments This volume is particularly helpful for graduate students in physics and biology interested in understanding biological processes with the use of quantum physics tools

Quantum Thermodynamics Jochen Gemmer, M. Michel, Günter Mahler, 2009-10-21 Over the years enormous effort was invested in proving ergodicity but for a number of reasons con dence in the fruitfulness of this approach has waned Y Ben Menahem and I Pitowsky 1 Abstract The basic motivation behind the present text is threefold To give a new explanation for the emergence of thermodynamics to investigate the interplay between quantum mechanics and thermodynamics and to explore possible ext sions of the common validity range of thermodynamics Originally thermodynamics has been a purely phenomenological science Early s entists Galileo Santorio Celsius Fahrenheit tried to give de nitions for quantities which were intuitively obvious to the observer like pressure or temperature and studied their interconnections The idea that these phenomena might be linked to other elds of physics like classical mechanics e g was not common in those days Such a connection was basically introduced when Joule calculated the heat equ alent in 1840 showing that heat was a form of energy just like kinetic or potential energy in the theory of mechanics At the end of the 19th century when the atomic theory became popular researchers began to think of a gas as a huge amount of bouncing balls inside a box

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Lin, 2013-12-12 This volume presents recent progress and perspectives in multi photon processes and spectroscopy of atoms ions molecules and solids The subjects in the series cover the experimental and theoretical investigations in the interdisciplinary research fields of natural science including chemistry physics bioscience and material science This volume is the latest volume in a series that is a pioneer in compiling review articles of nonlinear interactions of photons and matter It has made an essential contribution to the development and promotion of the related research fields In view of the rapid growth in multi photon processes and multi photon spectroscopy care has been taken to ensure that the review articles contained in the series are readable not only by active researchers but also those who are not Handbook of Materials Modeling Sidney Yip, 2007-11-17 This Handbook vet experts but intend to enter the field contains a set of articles introducing the modeling and simulation of materials from the standpoint of basic methods and studies The intent is to provide a compendium that is foundational to an emerging eld of computational research a new discipline that may now be called Compu tional Materials This area has become sufficiently diverse that any attempt to cover all the pertinent topics would be futile Even with a limited scope the present undertaking has required the dedicated efforts of 13 Subject Editors to set the scope of nine chapters solicit authors and collect the manuscripts The contributors were asked to target students and non specialists as the primary audience to provide an accessible entry into the eld and to offer references for further reading With no precedents to follow the editors and authors were only guided by a common goal to produce a volume that would set a standard toward de ning the broad community and stimulating its growth The idea of a reference work on materials modeling surfaced in convertions with Peter Bin eld then the Reference Works Editor at Kluwer Academic Publishers in the spring of 1999 The rationale at the time already seemed guite clear the eld of computational materials research was ting off powerful computer capabilities were becoming increasingly available and many sectors of the scienti c community were getting involved in the enterprise Modern Methods for Theoretical Physical Chemistry of Biopolymers Evgeni Starikov, James P. Lewis, Shigenori Tanaka, 2011-08-11 Modern Methods for Theoretical Physical Chemistry of Biopolymers provides an interesting selection of contributions from an international team of researchers in theoretical chemistry. This book is extremely useful for tackling the complicated scientific problems connected with biopolymers physics and chemistry The applications of both the classical molecular mechanical and molecular dynamical methods and the quantum chemical methods needed for bridging the gap to structural and dynamical properties dependent on electron dynamics are explained Also included are ways to deal with complex problems when all three approaches need to be considered at the same time The book gives a rich spectrum of applications from theoretical considerations of how ATP is produced and used as energy currency in the living cell to the effects of subtle solvent influence on properties of biopolymers and how structural changes in DNA during single molecule manipulation may be interpreted Presents modern successes and trends in theoretical physical chemistry chemical physics of biopolymers Topics covered are of relevant importance to rapidly developing areas in science such as nanotechnology and molecular medicine Quality selection of contributions from renowned scientists in the field Resonant Infrared Detectors And Emitters Kwong-kit Choi, 2024-05-24 This book is a sequel of The Physics of Quantum Well Infrared Photodetectors 1997 which covered the basic physics of QWIPs In the intervening 27 years QWIP properties pertinent to infrared detection are much better understood and QWIP technology has become a mainstream widely deployed infrared technology. The main progress is the ability to know the QWIP absorption quantum efficiency quantitatively through rigorous electromagnetic modeling The lack of theoretical prediction has impeded OWIP development for a long time Generally an arbitrary choice of detector structures yields substantial variations of absorption properties and QWIP was regarded as a low quantum efficiency detector With the advent of electromagnetic modeling quantum efficiency of any detector geometry can be known exactly and be optimized to attain a large satisfactory value Consequently all properties of QWIPs are predictable not unlike prevailing silicon devices This unique characteristic enables QWIP to be the most manufacturable long wavelength infrared technology in mass production This book by K K Choi a co inventor of QWIPs will capture this exciting development Based on the materials expounded in the book the reader will know key performance metrics in infrared detection in depth knowledge of QWIP material and structural designs array production its application and practical knowledge of electromagnetic modeling In addition the book will describe using micro and nano structures to enhance the emission properties of active and passive optical emitters similar to detectors The application of rigorous electromagnetic modeling to optical emitters is new to the optoelectronic community The resonator pixel emitter structure with its modeling method will no doubt be able to attract substantial academic and industrial attention in years to come Proceedings of the Ninth Conference on Quantum Field Theory Under the Influence of External Conditions (QFEXT09) K. 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Milton, 2010 Casimir forces between spheres and loop integrals J Babington Analytic corrections to the electromagnetic Casimir interaction between a sphere and a plate at short distances M Bordag and V Nikolaev Casimir physics geometry shape and material T Emig Semitransparent pistons P Morales and K Kirsten Using boundary methods to compute the Casimir energy F C Lombardo F D Mazzitelli and P I Villar Electromagnetic non contact gears prelude P Parashar und weitere The scattering approach to the Casimir force S Reynaud und weitere Scalar Casimir energies for separable coordinate systems application to semi transparent planes in an annulus J Wagner K A Milton and K Kirsten Demonstrating the strong geometry dependence of the Casimir force on a surface with deep nanoscale corrugations H B Chan und weitere New results for the Casimir interaction sample characterization and low temperature measurements R S Decca D Lopez and E Osquiguil Casimir force experiments in air two birds with one stone S De Man und weitere Experimental features of the recent lateral Casimir force measurement H C Chiu and U Mohideen Lateral Casimir Polder force measurement using Bose Einstein condensates G A Moreno Repulsive Casimir and van der Waals forces from measurements to future technologies J N Munday and F Capasso Macroscopic quantum vacuum and microscopic gravitation

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