



Quantum Dibrivative Systems

**Yuri P. Kalmykov, William T.
Coffey, Stuart A. Rice**



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Quantum Dissipative Systems Ulrich Weiss, 1999 Recent advances in the quantum theory of macroscopic systems have brightened up the field and brought it into the focus of a general community in natural sciences The fundamental concepts methods and applications including the most recent developments previously covered for the most part only in the original literature are presented here in a comprehensive treatment to an audience who is reasonably familiar with quantum statistical mechanics and has had rudimentary contacts with the path integral formulation This book deals with the phenomena and theory of decoherence and dissipation in quantum mechanics that arise from the interaction with the environment A general path integral description of equilibrium thermodynamics and non equilibrium dynamics is developed The approach can deal with weak and strong dissipation and with all kinds of memory effects Applications to numerous phenomenological and microscopic systems are presented where emphasis is put on condensed matter and chemical physics The basic principles and methods of preparation functions propagating functions and time correlation functions are described Special attention is focused on quantum tunneling and quantum coherence phenomena of macroscopic variables Many illustrative realistic examples are discussed in some detail The book attempts to provide a broad perspective and to open up this rapidly developing field to interested researchers normally working in different fields In this enlarged second edition the nineteen chapters of the first edition have been expanded by about one third to better meet both the requests of newcomers to the field and of advanced readers and seven new chapters have been added that review the most recent important developments

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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

Quantum Dissipative Systems (Fifth Edition) Ulrich Weiss, 2021-09-21 This comprehensive textbook provides the fundamental concepts and methods of dissipative quantum mechanics and related issues in condensed matter physics starting from first principles It deals with the phenomena and theory of decoherence relaxation and dissipation in quantum mechanics that arise from the random exchange of energy with the environment Major theoretical advances in combination with stunning experimental achievements and the arising perspective for quantum computing have brightened the field and brought it to the attention of the general community in natural sciences Expertise in dissipative quantum mechanics is by now beneficial in a broad sphere This book originally published in 1992 and republished as enlarged and updated second third and fourth edition in 1999 2008 and 2012 dives even deeper into the fundamental concepts methods and applications of quantum dissipation The fifth edition provides a self contained and updated account of the quantum mechanics and quantum statistics of open systems The subject matter of the book has been thoroughly revised to better comply with the needs of newcomers and the demands of the advanced readership Most of the chapters are rewritten to enhance clarity and topicality Four new chapters covering recent developments in the field have been added There are about 600 references This book is intended for use by advanced undergraduate and graduate students in physics and for researchers active in the field They will find the monograph as a rich and stimulating source

Quantum Dissipative Systems (Fourth Edition) Ulrich Weiss, 2012-03-05 Starting from first principles this book introduces the fundamental concepts and methods of dissipative quantum mechanics and explores related phenomena in condensed matter systems Major experimental achievements in cooperation with theoretical advances have brightened the field and brought it to the attention of the general community in natural sciences Nowadays working knowledge of dissipative quantum mechanics is an essential tool for many physicists This book originally published in 1990 and republished in 1999 and 2008 as enlarged second and third editions delves significantly deeper than ever before into the fundamental concepts methods and applications of quantum dissipative systems This fourth edition provides a self contained and updated account of the quantum mechanics of open systems and offers important new material including the most recent developments The subject matter has been expanded by about fifteen percent Many chapters have been completely rewritten to better cater to both the needs of newcomers to the field and the requests of the advanced readership Two chapters have been added that account for

recent progress in the field This book should be accessible to all graduate students in physics Researchers will find this a rich and stimulating source *Quantum Dissipative Systems* Ulrich Weiss,2000 *Quantum Mechanics of Non-Hamiltonian and Dissipative Systems* Vasily Tarasov,2008-06-06 Quantum Mechanics of Non Hamiltonian and Dissipative Systems is self contained and can be used by students without a previous course in modern mathematics and physics The book describes the modern structure of the theory and covers the fundamental results of last 15 years The book has been recommended by Russian Ministry of Education as the textbook for graduate students and has been used for graduate student lectures from 1998 to 2006 Requires no preliminary knowledge of graduate and advanced mathematics Discusses the fundamental results of last 15 years in this theory Suitable for courses for undergraduate students as well as graduate students and specialists in physics mathematics and other sciences *Classical and Quantum Dissipative Systems* Mohsen Razavy,2005 Extensive treatment of the Hamiltonian formulation of the damped system Coverage of a large number of solvable models classical and quantum mechanical which exhibit irreversibility Detailed discussion of classical quantal correspondence Includes discussion on motion of a charged particle in a viscous medium in the presence of an external electromagnetic field and the rule of minimal coupling **Quantum Dissipative Systems (Second Edition)** Ulrich Weiss,1999-10-27 Recent advances in the quantum theory of macroscopic systems have brightened up the field and brought it into the focus of a general community in natural sciences The fundamental concepts methods and applications including the most recent developments previously covered for the most part only in the original literature are presented here in a comprehensive treatment to an audience who is reasonably familiar with quantum statistical mechanics and has had rudimentary contacts with the path integral formulation This book deals with the phenomena and theory of decoherence and dissipation in quantum mechanics that arise from the interaction with the environment A general path integral description of equilibrium thermodynamics and non equilibrium dynamics is developed The approach can deal with weak and strong dissipation and with all kinds of memory effects Applications to numerous phenomenological and microscopic systems are presented where emphasis is put on condensed matter and chemical physics The basic principles and methods of preparation functions propagating functions and time correlation functions are described Special attention is focused on quantum tunneling and quantum coherence phenomena of macroscopic variables Many illustrative realistic examples are discussed in some detail The book attempts to provide a broad perspective and to open up this rapidly developing field to interested researchers normally working in different fields In this enlarged second edition the nineteen chapters of the first edition have been expanded by about one third to better meet both the requests of newcomers to the field and of advanced readers and seven new chapters have been added that review the most recent important developments **Classical And Quantum Dissipative Systems (Second Edition)** Mohsen Razavy,2017-02-27 Dissipative forces play an important role in problems of classical as well as quantum mechanics Since these forces are not among the basic forces of nature it is essential to consider whether they should be

treated as phenomenological interactions used in the equations of motion or they should be derived from other conservative forces In this book we discuss both approaches in detail starting with the Stoke s law of motion in a viscous fluid and ending with a rather detailed review of the recent attempts to understand the nature of the drag forces originating from the motion of a plane or a sphere in vacuum caused by the variations in the zero point energy In the classical formulation mathematical techniques for construction of Lagrangian and Hamiltonian for the variational formulation of non conservative systems are discussed at length Various physical systems of interest including the problem of radiating electron theory of natural line width spin boson problem scattering and trapping of heavy ions and optical potential models of nuclear reactions are considered and solved Classical And Quantum Dissipative Systems (Second Edition). Mohsen Razavy,2017 Dissipative forces play an important role in problems of classical as well as quantum mechanics Since these forces are not among the basic forces of nature it is essential to consider whether they should be treated as phenomenological interactions used in the equations of motion or they should be derived from other conservative forces In this book we discuss both approaches in detail starting with the Stoke s law of motion in a viscous fluid and ending with a rather detailed review of the recent attempts to understand the nature of the drag forces originating from the motion of a plane or a sphere in vacuum caused by the variations in the zero point energy In the classical formulation mathematical techniques for construction of Lagrangian and Hamiltonian for the variational formulation of non conservative systems are discussed at length Various physical systems of interest including the problem of radiating electron theory of natural line width spin boson problem scattering and trapping of heavy ions and optical potentials models of nuclear reactions are considered and solved Readership Researchers and graduate students in applied mathematics and theoretical physics Renormalization Group Theory for Quantum Dissipative Systems in Nonequilibrium Markus Keil,2001 *Stability and Area Law for Radpidly Mixing Quantum Dissipative Systems* Angelo Lucia,2016 Since its origins the field of information theory has had strong ties to statistical mechanics the terminology entropy of information was borrowed by Shannon from the thermodynamic entropy as suggested by Von Neumann 5 67 82 Traditionally information theory studies the storage of information coding and its transmission in noisy channels communication capacity By interpreting the physical interactions as communications channels it has been possible to apply the same tools and ideas in order to understand how the collective behavior of a mechanical system composed of many or infinite parties emerges from the simple and limited interactions between its individual components This has lead to understand the mechanism by which macroscopic properties emerge as effective behavior from microscopic interactions The same relationship has been developed recently between the corresponding quantum generalizations of both theories quantuminformation which is interested in the storage and manipulation of information in quantummechanical systems andmany body quantumphysics The ever growing number of connections between the two fields goes in both directions with tools and ideas fromquantuminformation helping to solve long standing problems in condensed matter

physics and new many body models being developed for the storage and the transformation of quantum information At the same time the spectacular improvements we have seen in the implementation and experimental control of small quantum systems is fueling the expectation that these experiments could be scaled up in size Larger experiments means being closer to have practical applications which has driven interest from top universities and research centers national funding bodies such as EPSRC and NSF to private companies with a strong focus on technological research as IBM Microsoft and Google

Dissipative Systems in Quantum Optics R. Bonifacio, 2012-12-06 In studying the radiation matter interaction one can take two different approaches The first is typical of spectroscopy one considers the interaction between radiation and a single atom i.e. one studies those phenomena in which the presence of other atoms is irrelevant The other attitude consists in contrast in studying those phenomena which arise just from the simultaneous presence of many atoms In fact all the atoms interact with the same electromagnetic field under suitable conditions this situation creates strong atom atom correlations which in turn give rise to a cooperative behavior of the system as a whole Cooperative means that the overall behavior is quite different from the superposition of the effects arising from single atoms and is completely unpredictable if one neglects the coupling between the atoms induced by their common electromagnetic field This book contains five complete and up to date contributions on the theory and experiments of three coherence effects in radiation matter interaction resonance fluorescences optical bistability and superfluorescence They have raised in creasing interest in recent years from both a fundamental and an applicative view point Even if their phenomenology appears completely different these effects be long in the same book because they are striking examples of open systems driven far from thermal equilibrium as those considered in Haken's synergetics and in Prigogine's theory of dissipative structures This aspect is discussed in the introductory chapter in which we outline the basic physics and the essential features which unify these three effects

Thermodynamics of Quantum Dissipative Systems Andrea Fubini, 2000

Uncertainty in Complex Networked Systems Tamer Başar, 2018-12-14 The chapters in this volume and the volume itself celebrate the life and research of Roberto Tempo a leader in the study of complex networked systems their analysis and control under uncertainty and robust designs Contributors include authorities on uncertainty in systems robustness networked and network systems social networks distributed and randomized algorithms and multi agent systems all fields that Roberto Tempo made vital contributions to Additionally at least one author of each chapter was a research collaborator of Roberto Tempo's This volume is structured in three parts The first covers robustness and includes topics like time invariant uncertainties robust static output feedback design and the uncertainty quartet The second part is focused on randomization and probabilistic methods which covers topics such as compressive sensing and stochastic optimization Finally the third part deals with distributed systems and algorithms and explores matters involving mathematical sociology fault diagnoses and PageRank computation Each chapter presents exposition provides new results and identifies fruitful future directions in research This book will

serve as a valuable reference volume to researchers interested in uncertainty complexity robustness optimization algorithms and networked systems 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 Statistical Mechanics And The Physics Of Many-particle Model Systems Alexander Leonidovich Kuzemsky,2017-02-24 The book is devoted to the study of the correlation effects in many particle systems It presents the advanced methods of quantum statistical mechanics equilibrium and nonequilibrium and shows their effectiveness and operational ability in applications to problems of quantum solid state theory quantum theory of magnetism and the kinetic theory The book includes description of the fundamental concepts and techniques of analysis following the approach of N N Bogoliubov's school including recent developments It provides an overview that introduces the main notions of quantum many particle physics with the emphasis on concepts and models This book combines the features of textbook and research monograph For many topics the aim is to start from the beginning and to guide the reader to the threshold of advanced researches Many chapters include also additional information and discuss many complex research areas which are not often discussed in other places The book is useful for established researchers to organize and present the advanced material disseminated in the literature The book contains also an extensive bibliography The book serves undergraduate graduate and postgraduate students as well as researchers who have had prior experience with the subject matter at a more elementary level or have used other many particle techniques *Applications in Physics, Part B* Vasily E. Tarasov,2019-02-19 This multi volume handbook is the most up to date and comprehensive reference work in the field of fractional calculus and its numerous applications This fifth volume collects authoritative chapters covering several applications of fractional calculus in physics including electrodynamics statistical physics and physical kinetics and quantum theory *Fractals, Diffusion, and Relaxation in Disordered Complex Systems* Yuri P. Kalmykov,William T. Coffey,Stuart A. Rice,2006-07-18 *Fractals Diffusion and Relaxation in Disordered Complex Systems* is a special guest edited two part volume of *Advances in Chemical Physics* that continues to report recent advances with significant up to date chapters by internationally recognized researchers

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