

# QUANTUM DISSIPATIVE SYSTEMS

Fourth Edition

Ulrich Weiss



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# Quantum Dissipative Systems 4th Edition

**Ulrich Weiss**



## **Quantum Dissipative Systems 4th Edition:**

**Quantum Dissipative Systems** Ulrich Weiss, 2012 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 (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 (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 *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

**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

**Thermodynamics and Control of Open Quantum Systems** Gershon Kurizki,Abraham G. Kofman,2022-01-13 The theory of open quantum systems is developed from first principles and a detailed discussion of real quantum devices is also covered This unique and self contained book is accessible to graduate students and researchers working in atomic physics quantum information condensed matter physics and quantum chemistry

*Emergent Quantum Mechanics* Jan Walleczek, Gerhard Grössing, Paavo Pylkkänen, Basil Hiley,2019-04-02 Emergent quantum mechanics

explores the possibility of an ontology for quantum mechanics The resurgence of interest in deeper level theories for quantum phenomena challenges the standard textbook interpretation The book presents expert views that critically evaluate the significance for 21st century physics of ontological quantum mechanics an approach that David Bohm helped pioneer The possibility of a deterministic quantum theory was first introduced with the original de Broglie Bohm theory which has also been developed as Bohmian mechanics The wide range of perspectives that were contributed to this book on the occasion of David Bohm's centennial celebration provide ample evidence for the physical consistency of ontological quantum mechanics The book addresses deeper level questions such as the following Is reality intrinsically random or fundamentally interconnected Is the universe local or nonlocal Might a radically new conception of reality include a form of quantum causality or quantum ontology What is the role of the experimenter agent As the book demonstrates the advancement of quantum ontology as a scientific concept marks a clear break with classical reality The search for quantum reality entails unconventional causal structures and non classical ontology which can be fully consistent with the known record of quantum observations in the laboratory

*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

**Towards a Post-Bertalanffy Systemics** Gianfranco Minati, Mario Abram, Eliano Pessa, 2015-12-23 This book contains the proceedings of the Sixth National Conference of the Italian Systems Society The title Towards a post Bertalanffy Systemics aims to underline the need for Systemics and Systems Science to generalize theoretically concepts related to complexity the great enemy of Bertalanffy Systemics Hopefully this

goal should be achieved by working in an inter disciplinary and trans disciplinary fashion using systemic concepts arising from various disciplines and from the original or Bertalanffy Systemics as well. The interdisciplinary nature of the original Systemics and its power of generalization were given overall by the fact that the problems and solutions of one discipline become problems and solutions for another. Today the modeling and interpretation of multidisciplinary approaches and representations makes easier to recognize these interconnections. The context however has changed dramatically. Of course the challenge is still to find theoretical generalizations and applications even where we have a lot of specificities but we know very little on how to combine them. We cannot however simply replace the old with the new but we must introduce strategies to recognize represent model and act on new levels combining multiple representations functions and emergence. In many disciplines this has been already done and inevitably well since targets and projects are well specified and oriented. The challenge is to do it for Systemics with the vocations of cultural and theoretical generalization. Examples of new issues introduced by such theoretical disciplinary improvements dealt with by many disciplines include the study of mesoscopic or middle way level of multiple and dynamic coherence of equivalence non equivalence of fractality of networks of non causality of non invasiveness of non prescribability of non separability of quasi properties of symmetry properties of topological dynamics as well as of quantum theories and concepts. The conference was devoted to identifying discussing and understanding possible interrelationships of theoretical disciplinary improvements recognized as having prospective fundamental roles for a new post Bertalanffy Systemics. The latter should be able to deal with problems related to complexity in a generalized way. In this context the inter disciplinarity should consists for instance in a disciplinary reformulation of problems as from algebraic to geometrical from military to political from biological to chemical while the trans disciplinarity should be related to the study of such reformulations and their properties. The Italian Systems Society AIRS was founded in the 1996. The AIRS is a network of academicians scientists researchers and professionals involved in Systemics. A partial list of disciplines represented is Architecture Biology Economics Education Engineering Mathematics Neurosciences Medicine Music Philosophy Psychology Physics. Previous conferences had as open lecturers professors Arecchi Haken Klir and Kauffman. The proceedings have been published as 1 Minati G ed 1998 Proceedings of the first Italian Conference on Systemics Apogeo Scientifica Milan Italy 2 Minati G and Pessa E eds 2002 Emergence in Complex Cognitive Social and Biological Systems Kluwer New York 3 Minati G Pessa E and Abram M eds 2006 Systemics of Emergence Research and Applications Springer New York 4 Minati G Abram M and Pessa E eds 2009 Processes of emergence of systems and systemic properties Towards a general theory of emergence World Scientific Singapore 5 Minati G Abram M and Pessa E eds 2012 Methods Models simulations and approaches towards a general theory of change World Scientific Singapore.

*Understanding Bose-Einstein Condensation, Superfluidity, and High-Temperature Superconductivity* Phil

Attard, 2025-01-02 Bose Einstein condensation superfluidity and superconductivity are quantum mechanics made visible. They

mark the boundary between the classical and the quantum worlds and they show the macroscopic role of quantum mechanics in condensed matter This book presents these phenomena in terms of particles their positions and their momenta giving a concrete visualisation and description that is not possible with traditional wave functions A single approach that bridges the classical quantum divide provides new insight into the role of particle interactions in condensation the nature of collisions in superfluid flow and the physical form of Cooper pairs in high temperature superconductors High temperature superconductivity is explored with quantum statistical mechanics which links it to Bose Einstein condensation Identifying a new mechanism for Cooper pairing this explains the differences between the low and high temperature superconducting regimes and the role of the molecular structure of the conductor The new perspective offered by this book on Bose Einstein condensation superfluidity and high temperature superconductivity gives particle based explanations as well as mathematical and computational methods for these macroscopic quantum phenomena so that readers understand the role of particle interactions and structure in the physics of these phenomena This book will appeal to undergraduate and graduate students lecturers academics and scientific researchers in the fields of Bose Einstein condensation and condensates superfluidity and superconductivity It will also be of interest to those working with thermodynamics statistical mechanics statistical physics quantum mechanics molecular dynamics materials science condensed matter physics and theoretical chemistry

**Key Features**  
 Explores Bose Einstein condensation with new evidence for multiple condensed states and novel Monte Carlo simulations for interacting bosons Establishes the thermodynamic nature of condensed bosons from an analysis of fountain pressure measurements including that they carry energy and entropy and the thermodynamic principle of superfluid flow Derives equations of motion for condensed bosons and performs molecular dynamics simulations of the viscosity with molecular trajectories that give rise to superfluidity Identifies the mechanism for electron pairing in high temperature superconductivity

**Principles of Nanophotonics** Motoichi Ohtsu, Kiyoshi Kobayashi, Tadashi Kawazoe, Takashi Yatsui, Makoto Naruse, 2008-06-06 Coauthored by the developer of nanophotonics this book outlines physically intuitive concepts of the subject using a novel theoretical framework that differs from conventional wave optics After reviewing the background history and current status of research and development in nanophotonics and related technologies the authors present a unique theoretical model to describe the interactions among nanometric material systems via optical near fields They then explore nanophotonic devices and fabrication techniques and provide examples of qualitative innovation The final chapter looks at how the assembly of nanophotonic devices produces a nanophotonic system

*Complex Systems — Operational Approaches in Neurobiology, Physics, and Computers* Hermann Haken, 2012-12-06 A great deal of the success of science has rested on its specific methods One of which has been to start with the study of simple phenomena such as that of falling bodies or to decompose systems into parts with well defined properties simpler than those of the total system In our time there is a growing awareness that in many cases of great practical or scientific interest such as economics or the hu

man brain we have to deal with truly complex systems which cannot be decomposed into their parts without losing crucial properties of the total system In addition complex systems have many facets and can be looked at from many points of view Whenever a complicated problem arises some scientists or other people are ready to invent lots of beautiful words or to quote Goethe denn immer wo Begriffe fehlen dort stellt ein Wort zur rechten Zeit sich ein whenever concepts are lacking a word appears at the right time Quite often such a procedure gives not only the layman but also scientists working in fields different from that of the inventor of these new words the impression that this problem has been solved and I am occasionally shocked to see how influential this kind of linguistics has become

Thermal Field Theories And Their Applications - Proceedings Of The 4th International Workshop Yuan-xing Gui, Faqir C Khanna, Z B Su, 1996-06-12 Thermal field theory is the study of quantum field theory at non zero temperature This proceedings introduces both retrospect and prospect for various aspects of thermal field theory as well as their extensive applications to condensed matter physics high energy physics cosmology nuclear physics etc Also included are speeches memorizing the recently lamented Professor Hiroshi Umezawa a leading physicist in thermal field theory by his former students and colleagues

Progress in Optics, 1984-05-01 Progress in Optics

**Diffusion** Sushanta Dattagupta, 2013-11-12 Within a unifying framework Diffusion Formalism and Applications covers both classical and quantum domains along with numerous applications The author explores the more than two centuries old history of diffusion expertly weaving together a variety of topics from physics mathematics chemistry and biology The book examines the two distinct

Classical Mechanics With Applications Porter W Johnson, 2010-01-29 This textbook appropriate for a one semester course in classical mechanics at the late undergraduate or early graduate level presents a fresh modern approach to mechanics About 150 exercises covering a wide variety of topics and applications have solutions roughly outlined for enhanced understanding Unique to this text is the versatile application of programming language Mathematica throughout to analyze systems and generate results Coverage is also devoted to the topic on one dimensional continuum systems The extensive discussions on inverse problems of mechanical systems and the detailed analysis of stability of classical systems certainly make this an outstanding textbook

Dynamics of Classical and Quantum Fields Girish S. Setlur, 2013-12-05 Dynamics of Classical and Quantum Fields An Introduction focuses on dynamical fields in non relativistic physics Written by a physicist for physicists the book is designed to help readers develop analytical skills related to classical and quantum fields at the non relativistic level and think about the concepts and theory through numerous problems

Quantum Measurements and Decoherence M. Mensky, 2013-04-17 Quantum measurement is a measurement which is sufficiently precise for quantum effects to be essential was always one of the most important points in quantum mechanics because it most evidently revealed the difference between quantum and classical physics Now quantum measurement is again under active investigation first of all because of the practical necessity of dealing with highly precise and complicated measurements The nature of quantum measurement has become understood much better during this new



period of activity the understanding being expressed by the concept of decoherence This term means a physical process leading from a pure quantum state wave function of the system prior to the measurement to its state after the measurement which includes classical elements More concretely decoherence occurs as a result of the entanglement of the measured system with its environment and results in the loss of phase relations between components of the wave function of the measured system Decoherence is essentially nothing else than quantum measurement but considered from the point of view of its physical mechanism and resolved in time The present book is devoted to the two concepts of quantum measurement and decoherence and to their interrelation especially in the context of continuous quantum measurement     **Quantum**

**Circuit Simulation** George F. Viamontes,Igor L. Markov,John P. Hayes,2009-08-04 Quantum Circuit Simulation covers the fundamentals of linear algebra and introduces basic concepts of quantum physics needed to understand quantum circuits and algorithms It requires only basic familiarity with algebra graph algorithms and computer engineering After introducing necessary background the authors describe key simulation techniques that have so far been scattered throughout the research literature in physics computer science and computer engineering Quantum Circuit Simulation also illustrates the development of software for quantum simulation by example of the QuIDDPro package which is freely available and can be used by students of quantum information as a quantum calculator     **A Classical Interpretation of Observed Switching Statistics in Microwave-driven Josephson Junction Systems** Jeffrey Eugene Marchese,2007

## Reviewing **Quantum Dissipative Systems 4th Edition**: Unlocking the Spellbinding Force of Linguistics

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