

QUANTUM DISSIPATIVE SYSTEMS

Fourth Edition

Ulrich Weiss



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Quantum Dissipative Systems 4th Edition

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Quantum Dissipative Systems 4th Edition:

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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 (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 (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

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 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

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 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

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

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