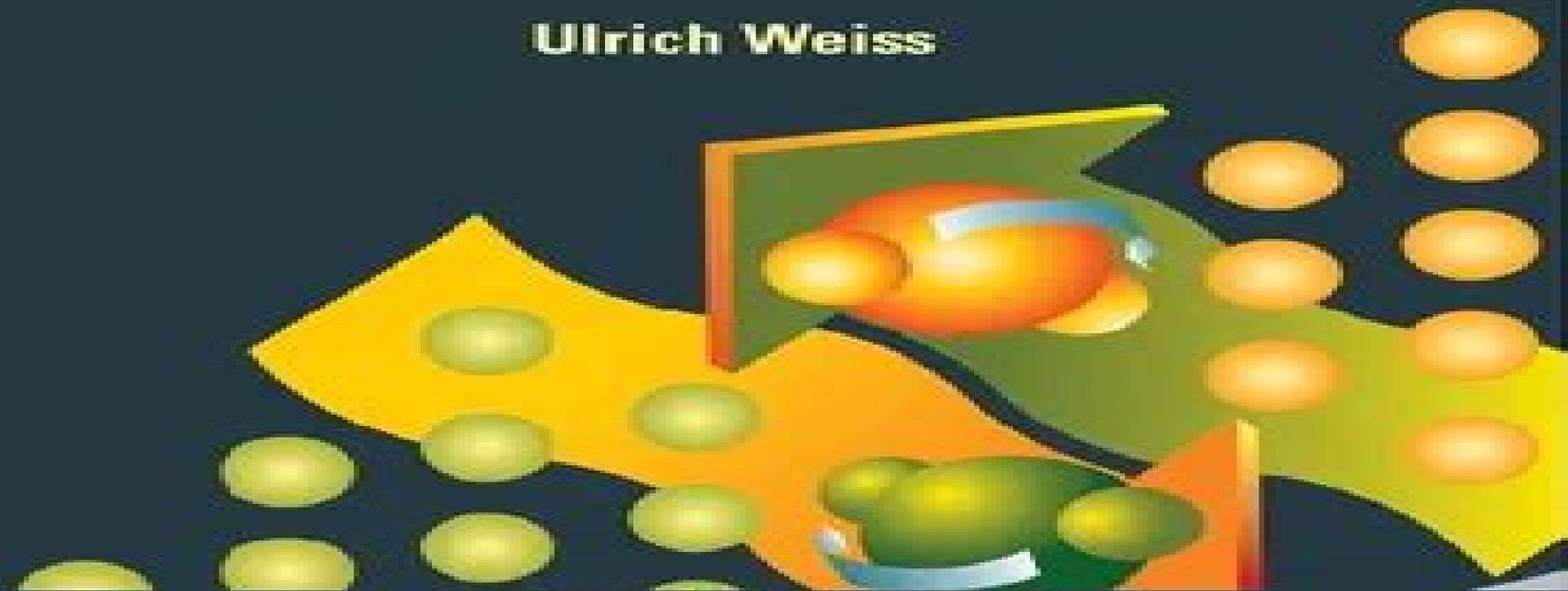


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Quantum Dissipative Systems (Third Edition) Ulrich Weiss, 2008-03-04 Major advances in the quantum theory of macroscopic systems in combination with stunning experimental achievements have brightened the field and brought it to the attention of the 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

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

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 consist 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

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

A Classical Interpretation of Observed Switching Statistics in Microwave-driven Josephson Junction Systems Jeffrey Eugene Marchese,2007

A Guide to Experiments in Quantum Optics Hans-A. Bachor,1998-03-27 Some of the most interesting phenomena in optics are those where the quantum mechanical nature of light is apparent In recent years there has been a rapid expansion of experimental optics into this area This book is intended as a guide through the many experiments that have been published Although there have been many excellent books written on quantum optics they have been written from a theoretical point of view This new book differs in that it focuses on actual experiments and what can be learned from them It explains the underlying physics and addresses questions such as the limitations of the equipment what can be measured and what remains a goal for the future To bridge the gap between theory and experiment the book employs a succession of steps First the classical properties of light are summarised and then models for the quantum properties of light are introduced Next the basic components of the experiments are introduced and their specific properties that have an influence on quantum optics experiments are discussed A chapter on basic experiments forms the building blocks of all quantum optics experiments The last part of the book deals with currently reported experiments in non classical light and squeezing and with quantum non demolition experiments and finishes off with a chapter on applications in communications cryptography and gravity wave detectors

Proceedings of the 4th International Symposium Foundations of Quantum Mechanics in the Light of New Technology Masaru Tsukada,1993

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Whitaker's Books in Print ,1998

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