

**RELAXATION PHENOMENA
IN CONDENSED MATTER PHYSICS**

Sushanta Dattagupta

Relaxation Phenomena In Condensed Matter Physics

J.T. Devreese



Relaxation Phenomena In Condensed Matter Physics:

Relaxation Phenomena in condensed Matter Physics Sushanta Dattagupta, 2012-12-02 Relaxation Phenomena in Condensed Matter Physics features various methods for spectroscopy techniques presented in this book and the relation of these techniques to correlation functions This book aims to present the similarities and differences between different studies of the relaxation phenomena and to come up with a unified theoretical approach This text is divided into two major parts A and B Part A deals briefly with several spectroscopy experiments and how they can be analyzed in terms of correlation functions Spectroscopy techniques are likewise discussed in this part Part B focuses on the stochastic theory of the said correlation functions where each stochastic model is situated in the context of a physical process The result of the calculations is then related to one of the experiments featured in Part A These stochastic methods provide a simple mathematical framework in analyzing relaxation phenomena that can be related to diffusion process This book is targeted to graduate students who have already taken quantum and statistical physics and is a good reference to students scientists and researchers in the field of condensed matter physics

Relaxation Phenomena in Condensed Matter William T. Coffey, 2009-09-09 Russian contributors provide a synthesis of ideas drawn from dielectric magnetic and elastic relaxation Divided into three sections the book commences with dielectric and related processes in simple liquids Part two deals with the structure and dielectric relaxation of aqueous solutions Lastly it addresses magnetic and dielectric relaxation in liquid crystals and elastic relaxation in orientable polymers Advances in Chemical Physics, Volume 87, Relaxation Phenomena in Condensed Matter William Coffey, 1994 **Advances in Chemical Physics, Volume 108**, 1999 *A Paradigm Called*

Magnetism Sushanta Dattagupta, 2008-10-10 This book provides an overview of how diverse issues of Magnetism have implications for other areas of physics Attention will be drawn to different aspects of many body physics which first appeared in Magnetism but have had deep impact in different branches of physics Each of these aspects will be illustrated schematically and in terms of physical examples chosen from multicritical phenomena quantum phase transition spin glasses relaxation phase ordering and quantum dissipation A unique feature of this book is a unified and coherent discussion of magnetic phenomena presented in a lucid and pedagogical manner **Computer Simulation Studies in**

Condensed-Matter Physics XIV D.P. Landau, S.P. Lewis, H.-B. Schüttler, 2012-12-06 Over the last 30 years Professor David P Landau's trailblazing research achievements and influential leadership have helped establish computer simulation as a powerful and incisive mode of scientific investigation now on a par in the physical sciences with experimental and theoretical research This year we were very pleased to organize a special one day symposium honoring the 60th birthday of our distinguished colleague and friend This event was held in conjunction with and immediately following the annual computer simulations workshop that Professor Landau founded 14 years ago Many of the papers presented at this honorary symposium are integrated into this proceedings volume and the accompanying photograph of participants serves to commemorate this

very special event This volume contains both invited papers and contributed presentations on problems in both classical and quantum condensed matter physics We hope that each reader will benefit from specialized results as well as profit from exposure to new algorithms methods of analysis and conceptual developments Nonequilibrium Statistical Physics Noëlle Pottier, 2010 This book presents a united approach to the statistical physics of systems near equilibrium it brings out the profound unity of the laws which govern them and gathers together results usually fragmented in the literature It will be useful both as a textbook about irreversible phenomena and as a reference book for researchers 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 **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 paradigms of diffusion physical and stochastic introduced by Fourier and Laplace and later unified by Einstein in his groundbreaking work on Brownian motion The author describes the role of diffusion in probability theory and stochastic calculus and discusses topics in materials science and metallurgy such as defect diffusion radiation damage and spinodal decomposition In addition he addresses the impact of translational rotational diffusion on experimental data and covers reaction diffusion equations in biology Focusing on diffusion in the quantum domain the book also investigates dissipative tunneling Landau diamagnetism coherence to decoherence transition quantum information processes and electron localization Concepts and Methods in Modern Theoretical Chemistry, Two Volume Set Swapan Kumar Ghosh, Pratim Kumar Chattaraj, 2020-06-16 Concepts and Methods in Modern Theoretical Chemistry Two

Volume Set focuses on the structure and dynamics of systems and phenomena A new addition to the series Atoms Molecules and Clusters the two books offer chapters written by experts in their fields They enable readers to learn how concepts from ab initio quantum chemistry density functional theory (DFT) can be used to describe understand and predict chemical dynamics This book covers a wide range of subjects including discussions on the following topics Time dependent DFT Quantum fluid dynamics QFD Photodynamic control nonlinear dynamics and quantum hydrodynamics Molecules in a laser field charge carrier mobility and excitation energy transfer Mechanisms of chemical reactions Nucleation quantum Brownian motion and the third law of thermodynamics Transport properties of binary mixtures Although most of the chapters are written at a level that is accessible to a senior graduate student experienced researchers will also find interesting new insights in these experts perspectives This book provides an invaluable resource toward understanding the whole gamut of atoms molecules and clusters

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

Concepts and Methods in Modern Theoretical Chemistry Swapan Kumar Ghosh,Pratim Kumar Chattaraj,2013-02-26 Concepts and Methods in Modern Theoretical Chemistry Statistical Mechanics the second book in a two volume set focuses on the dynamics of systems and phenomena A new addition to the series Atoms Molecules and Clusters this book offers chapters written by experts in their fields It enables readers to learn how concepts from ab initio quantum chemistry and density functional theory DFT can be used to describe understand and predict chemical dynamics This book covers a wide range of subjects including discussions on the following topics Time dependent DFT Quantum fluid dynamics QFD Photodynamic control nonlinear dynamics and quantum hydrodynamics Molecules in a laser field charge carrier mobility and excitation energy transfer Mechanisms of chemical reactions Nucleation quantum Brownian motion and the third law of thermodynamics Transport properties of binary mixtures Although most of the chapters are written at a level that is accessible to a senior graduate student experienced researchers will also find interesting new insights in these experts perspectives This book provides an invaluable resource toward understanding the whole gamut of atoms molecules and clusters

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 *Annual Reviews of Computational Physics VIII* Dietrich Stauffer,2000 This volume is based on an international school on Scaling and Disordered Systems organized by M R H Khajepour M R Kolahchi and M Sahimi Despite the common theme it covers fields as diverse as basic and applied percolation and biological prey predator and ageing simulations The advantages of computer simulation thus become particularly clear in the reviews which have been written by leading experts **Ferrofluids** Stefan Odenbach,2008-01-11 Magnetic control of the properties and the flow of liquids is a challenging field for basic research and for applications This book is meant to be both an introduction to and a state of the art review of this topic Written in the form of a set of lectures and tutorial reviews the book addresses the synthesis and characterization of magnetic fluids their hydrodynamical description and their rheological properties The book closes with an account of magnetic drug targeting **Quantum Fluctuations In Mesoscopic And Macroscopic Systems - Proceedings Of The Adriatico Research Conference** H A Cerdeira,Ulrich Weiss,Franco Guinea Lopez,1991-05-24 Novel phenomena in submicron semiconductor devices and small Josephson junctions emphasize the need to understand quantum mechanical coherence and tunneling in mesoscopic and macroscopic systems These proceedings review the recent experimental and theoretical progress and discuss new concepts techniques and results Theoretical Aspects and New Developments in Magneto-Optics J.T. Devreese,2013-06-29 The Advanced Study Institute on Theoretical Aspects and New Developments in Magneto Optics was held at the University of Antwerpen R U C A from July 16 to July 28 1979 The Institute was sponsored by NATO Co sponsors were Agfa Gevaert Belgium A S L K Belgium Bell Telephone Mfg CO Belgium Esso Belgium Generale Bankmaatschappij Belgium General Motors Belgium I B M Belgium Kredietbank Belgium Metallurgie Hoboken Over pelt Belgium National Science Foundation U S A A total of 60 lecturers and participants attended the Institute Scope of the Institute The magneto optic phenomena are due to the change of the polarizability of a substance as a result of the splitting of the quantized energy bands Most of these phenomena were discovered during the second half of this century The understanding of the magneto optical effects of all kinds however was brought by the advent of quantum mechanics and since then important progress has been made in many fields of experimental methods and techniques *Comments on Solid State Physics* ,1978 *Stochastic Dynamics and Irreversibility* Tânia Tomé,Mário J. de Oliveira,2014-11-26 This textbook

presents an exposition of stochastic dynamics and irreversibility. It comprises the principles of probability theory and the stochastic dynamics in continuous spaces described by Langevin and Fokker-Planck equations and in discrete spaces described by Markov chains and master equations. Special concern is given to the study of irreversibility both in systems that evolve to equilibrium and in nonequilibrium stationary states. Attention is also given to the study of models displaying phase transitions and critical phenomena both in thermodynamic equilibrium and out of equilibrium. These models include the linear Glauber model, the Glauber-Ising model, lattice models with absorbing states such as the contact process and those used in population dynamics and spreading of epidemic, probabilistic cellular automata, reaction-diffusion processes, random sequential adsorption and dynamic percolation. A stochastic approach to chemical reaction is also presented. The textbook is intended for students of physics and chemistry and for those interested in stochastic dynamics. It provides by means of examples and problems a comprehensive and detailed explanation of the theory and its applications. Stability of Materials

A. Gonis, Josef Kudrnovský, Patrice E.A. Turchi, 2012-12-06. Engineering materials with desirable physical and technological properties requires understanding and predictive capability of materials behavior under varying external conditions such as temperature and pressure. This immediately brings one face to face with the fundamental difficulty of establishing a connection between materials behavior at a microscopic level where understanding is to be sought and macroscopic behavior which needs to be predicted. Bridging the corresponding gap in length scales that separates the ends of this spectrum has been a goal intensely pursued by theoretical physicists, experimentalists and metallurgists alike. Traditionally the search for methods to bridge the length scale gap and to gain the needed predictive capability of materials properties has been conducted largely on a trial and error basis guided by the skill of the metallurgist, large volumes of experimental data and often ad hoc semi-phenomenological models. This situation has persisted almost to this day and it is only recently that significant changes have begun to take place. These changes have been brought about by a number of developments, some of long standing, others of more recent vintage.

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