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Quantum Statistics of Nonideal Plasmas



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Dietrich Kremp, Manfred Schlanges, Wolf-Dietrich Kraeft, T. Bornath

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Bornath, 2005-02-11 This book deals with the statistical theory of strongly coupled Coulomb systems After an elementary introduction to the physics of nonideal plasmas a presentation of the method of nonequilibrium Green's functions is given On this basis the dielectric thermodynamic transport and relaxation properties are discussed systematically Especially the behavior of bound states in the surrounding plasma lowering of the ionization energy the ionization kinetics and the equation of state of dense partially ionized hydrogen are each carefully investigated Furthermore generalized kinetic equations are derived which are also valid for short time scales They are applied to ultra fast processes and to plasmas in laser fields

Quantum Statistics of Dense Gases and Nonideal Plasmas Werner Ebeling, Vladimir E. Fortov, Vladimir Filinov, 2017-11-27 The aim of this book is the pedagogical exploration of the basic principles of quantum statistical thermodynamics as applied to various states of matter ranging from rare gases to astrophysical matter with high energy density The reader will learn in this work that thermodynamics and quantum statistics are still the concepts on which even the most advanced research is operating despite of a flood of modern concepts classical entities like temperature pressure energy and entropy are shown to remain fundamental The physics of gases plasmas and high energy density matter is still a growing field and even though solids and liquids dominate our daily life more than 99 percent of the visible Universe is in the state of gases and plasmas and the overwhelming part of matter exists at extreme conditions connected with very large energy densities such as in the interior of stars This text combining material from lectures and advanced seminars given by the authors over many decades is a must have introduction and reference for both newcomers and seasoned researchers Kinetic Theory of Nonideal Gases and Nonideal Plasmas Yu L Klimontovich, 2013-10-22 Kinetic Theory of alike Nonideal Gases and Nonideal Plasmas presents the fundamental aspects of the kinetic theory of gases and plasmas The book consists of three parts which attempts to present some of the ideas methods and applications in the study of the kinetic processes in nonideal gases and plasmas The first part focuses on the classical kinetic theory of nonideal gases The second part discusses the classical kinetic theory of fully ionized plasmas The last part is devoted to the quantum kinetic theory of nonideal gases and plasmas A concluding chapter is included which presents a short account of the kinetic theory of chemically reacting systems and of partially ionized plasmas in order to espouse further studies in the field Physicists scientific researchers professors and graduate students in various fields will find the text of good use Lectures on Quantum Statistics Werner Ebeling, Thorsten Pöschel, 2019-05-11 Most of the matter in our universe is in a gaseous or plasma state Yet most textbooks on quantum statistics focus on examples from and applications in condensed matter systems due to the prevalence of solids and liquids in our day to day lives In an attempt to remedy that oversight this book consciously focuses on teaching the subject matter in the context of dilute gases and plasmas while aiming primarily at

graduate students and young researchers in the field of quantum gases and plasmas for some of the more advanced topics The majority of the material is based on a two semester course held jointly by the authors over many years and has benefited from extensive feedback provided by countless students and co workers The book also includes many historical remarks on the roots of quantum statistics firstly because students appreciate and are strongly motivated by looking back at the history of a given field of research and secondly because the spirit permeating this book has been deeply influenced by meetings and discussions with several pioneers of quantum statistics over the past few decades The Physics of Non-ideal Plasma V. E. Fortov, Igor T. Iakubov, 2000 This book is devoted to the physical properties of non ideal plasma which are compressed so strongly that the effects of interparticle interactions govern its behavior In this volume the methods of non ideal plasma generation and diagnostics are considered The experimental results are given and the main theoretical models of the non ideal plasma state are discussed The problems of thermodynamics electro physics optics and dynamic stability are covered **BOOK JACKET** Complex Plasmas Michael Bonitz, Jose Lopez, Kurt Becker, Hauke Thomsen, 2014-04-09 This book provides the reader with an introduction to the physics of complex plasmas a discussion of the specific scientific and technical challenges they present and an overview of their potential technological applications Complex plasmas differ from conventional high temperature plasmas in several ways they may contain additional species including nano meter to micrometer sized particles negative ions molecules and radicals and they may exhibit strong correlations or quantum effects This book introduces the classical and quantum mechanical approaches used to describe and simulate complex plasmas It also covers some key experimental techniques used in the analysis of these plasmas including calorimetric probe methods IR absorption techniques and X ray absorption spectroscopy The final part of the book reviews the emerging applications of microcavity and microchannel plasmas the synthesis and assembly of nanomaterials through plasma electrochemistry the large scale generation of ozone using microplasmas and novel applications of atmospheric pressure non thermal plasmas in dentistry Going beyond the scope of traditional plasma texts the presentation is very well suited for senior undergraduate graduate students and postdoctoral researchers specializing in plasma physics Quantum Statistics of Charged Particle Systems W.D. Kraeft, D. Kremp, W. Ebeling, G. Röpke, 2012-12-06 The year 1985 represents a special anniversary for people dealing with Ooulomb systems 200 years ago in 1785 Oharles Auguste de Ooulomb 1736 1806 found Ooulomb s law for the interaction force between charged particles The authors want to dedicate this book to the honour of the great pioneer of electrophysics Recent statistical mechanics is mainly restricted to systems of neutral particles Except for a few monographs and survey articles see e g IOHIMARU 1973 1982 KUDRIN 1974 KLIMONTOVIOH 1975 EBELING KRAEFT and KREMP 1976 1979 KALMAN and CARINI 1978 BAUS and HANSEN 1980 GILL 1981 VELO and WIGHT MAN 1981 MATSUBARA 1982 the extended material on charged particle systems which is now available thanks to the efforts of many workers in statistical mechanics is widely dispersed in many original articles It is the aim of this monograph to represent at least some

part of the known results on charged particle systems from a unified point of view Here the method of Green's functions turns out to be a powerful method especially to overcome the difficulties connected with the statistical physics of charged particle systems some of them are mentioned in the introduction Here we can point e q to the appearance of bound states in a medium and their role as new entities Introduction to Complex Plasmas Michael Bonitz, Norman Horing, Patrick Ludwig, 2010-07-29 Complex plasmas differ from traditional plasmas in many ways these are low temperature high pressure systems containing nanometer to micrometer size particles which may be highly charged and strongly interacting The particles may be chemically reacting or be in contact with solid surfaces and the electrons may show quantum behaviour These interesting properties have led to many applications of complex plasmas in technology medicine and science Yet complex plasmas are extremely complicated both experimentally and theoretically and require a variety of new approaches which go beyond standard plasma physics courses This book fills this gap presenting an introduction to theory experiment and computer simulation in this field Based on tutorial lectures at a very successful recent Summer Institute the presentation is ideally suited for graduate students plasma physicists and experienced undergraduates **Nuclear Science Abstracts** .1975-05 **Nonequilibrium Statistical Physics** Gerd Röpke, 2013-03-01 Authored by a well known expert in the field of nonequilibrium statistical physics this book is a coherent presentation of the subject suitable for masters and PhD students as well as postdocs in physics and related disciplines Starting from a general discussion of irreversibility and entropy the method of nonequilibrium statistical operator is presented as a general concept Stochastic processes are introduced as a necessary prerequisite to describe the evolution of a nonequilibrium state Different standard approaches such as master equations kinetic equations and linear response theory are derived after special assumptions. This allows for an insight into the problems of nonequilibrium physics a discussion of the limits of the approaches and suggestions for improvements The method of thermodynamic Green's function is outlined that allows for the systematic quantum statistical treatment of many body systems Applications and typical examples are given as well as fully worked problems

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