MATHEMATICAL FOUNDATIONS OF CLASSICAL STATISTICAL MECHANICS

CONTINUOUS SYSTEMS

D. Ya. Petrina
V.I. Gerasimenko
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Mathematical Foundations Of Clabical Statistical Mechanics

D.Ya. Petrina,V.I. Gerasimenko,P V Malyshev

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Mathematical Foundations of Statistical Mechanics Aleksandr I?Akovlevich Khinchin,1949-01-01 Phase space ergodic problems central limit theorem dispersion and distribution of sum functions Chapters include Geometry and Kinematics of the Phase Space Ergodic Problem Reduction to the Problem of the Theory of Probability Application of the Central Limit Theorem Ideal Monatomic Gas The Foundation of Thermodynamics and more **Mathematical Foundations of Classical Statistical Mechanics** Dmitriĭ I□A□kovlevich Petrina,Viktor Ivanovich Gerasimenko,Petr Vitalʹevich Malyshev,1989 Introducing the functional method practiced in the USSR this well translated monograph considers the problem of investigating systems of infinite numbers of particles It discusses the equilibrium and non equilibrium states of infinite classical statistical systems and investigates the thermodynamic limit for non equilibrium systems and of the states of infinite systems for which thermodynamic equivalence is proved Book club price 95 Annotation copyrighted by Book News Inc Portland OR **Mathematical Foundations of Classical Statistical Mechanics** D.Ya. Petrina,V.I. Gerasimenko,P V Malyshev,2002-04-11 This monograph considers systems of infinite number of particles in particular the justification of the procedure of thermodynamic limit transition The authors discuss the equilibrium and non equilibrium states of infinite classical statistical systems Those states are defined in terms of stationary and nonstationary solutions to the Bogolyubov

Mathematical Foundations of Quantum Statistical Mechanics D.Y. Petrina,2012-12-06 This monograph is devoted to quantum statistical mechanics It can be regarded as a continuation of the book Mathematical Foundations of Classical Statistical Mechanics Continuous Systems Gordon Breach SP 1989 written together with my colleagues V I Gerasimenko and P V Malyshev Taken together these books give a complete pre sentation of the statistical mechanics of continuous systems both quantum and classical from the common point of view Both books have similar contents They deal with the investigation of states of in finite systems which are described by infinite sequences of statistical operators reduced density matrices or Green s functions in the quantum case and by infinite sequences of distribution functions in the classical case The equations of state and their solutions are the main object of investigation in these books For infinite systems the solutions of the equations of state are constructed by using the thermodynamic limit procedure accord ing to which we first find a solution for a system of finitely many particles and then let the number of particles and the volume of a region tend to infinity keeping the density of particles constant However the style of presentation in these books is quite different **Statistical Mechanics and the Theory of Dynamical Systems** Nikolaĭ Nikolaevich Bogoli□u□bov,Nikolaĭ Nikolaevich Bogoli͡ubov,1992 This volume contains articles covering a wide range of current directions in modern statistical mechanics and dynamical systems theory Scientists researchers and students working in mathematical physics and statistical mechanics will find this book of great interest Among the topics covered are phase transition problems including superconductivity and superfluidity methods of nonequilibrium statistical mechanics and fluctuation theory quantum collective phenomena superradiance spin

glasses polaron problems chains of Bogolyubov equations and kinetic equations algebraic aspects of quantum dynamical semigroups the collective variables method and qualitative properties of classical dynamical systems **Statistical Mechanics And The Physics Of Many-particle Model Systems** Alexander Leonidovich Kuzemsky,2017-02-24 The book is devoted to the study of the correlation effects in many particle systems It presents the advanced methods of quantum statistical mechanics equilibrium and nonequilibrium and shows their effectiveness and operational ability in applications to problems of quantum solid state theory quantum theory of magnetism and the kinetic theory The book includes description of the fundamental concepts and techniques of analysis following the approach of N N Bogoliubov s school including recent developments It provides an overview that introduces the main notions of quantum many particle physics with the emphasis on concepts and models This book combines the features of textbook and research monograph For many topics the aim is to start from the beginning and to guide the reader to the threshold of advanced researches Many chapters include also additional information and discuss many complex research areas which are not often discussed in other places The book is useful for established researchers to organize and present the advanced material disseminated in the literature The book contains also an extensive bibliography The book serves undergraduate graduate and postgraduate students as well as researchers who have had prior experience with the subject matter at a more elementary level or have used other many particle techniques **Mathematical Foundations of Quantum Statistics** Aleksandr Iakovlevich Khinchin,1998-01-01 A coherent well organized look at the basis of quantum statistics computational methods the determination of the mean values of occupation numbers the foundations of the statistics of photons and material particles thermodynamics Mathematical Physics II: Classical Statistical Mechanics Matteo Petrera,2014 These Lecture Notes provide an introduction to classical statistical mechanics The first part presents classical results mainly due to L Boltzmann and J W Gibbs about equilibrium statistical mechanics of continuous systems Among the topics covered are kinetic theory of gases ergodic problem Gibbsian formalism derivation of thermodynamics phase transitions and thermodynamic limit The second part is devoted to an introduction to the study of classical spin systems with special emphasis on the Ising model The material is presented in a way that is at once intuitive systematic and mathematically rigorous The theoretical part is supplemented with concrete examples and exercises **Stochastic Dynamics and Boltzmann Hierarchy** Dmitri Ya. Petrina,2009-07-14 The monograph is devoted to one of the most important trends in contemporary mathematical physics the investigation of evolution equations of many particle systems of statistical mechanics The book systematizes rigorous results obtained in this field in recent years and it presents contemporary methods for the investigation of evolution equations of infinite particle systems The book is intended for experts in statistical physics mathematical physics and probability theory and for students of universities specialized in mathematics and physics *Dynamical Systems, Ergodic Theory and Applications* L.A. Bunimovich,S.G. Dani,R.L. Dobrushin,M.V. Jakobson,I.P. Kornfeld,N.B. Maslova,Ya.B. Pesin,J. Smillie,Yu.M. Sukhov,A.M.

Vershik,2000-04-05 This EMS volume the first edition of which was published as Dynamical Systems II EMS 2 familiarizes the reader with the fundamental ideas and results of modern ergodic theory and its applications to dynamical systems and statistical mechanics The enlarged and revised second edition adds two new contributions on ergodic theory of flows on homogeneous manifolds and on methods of algebraic geometry in the theory of interval exchange transformations

Stochastic Dynamics and Boltzmann Hierarchy Dmitriĭ IА̐kovlevich Petrina,2009 This book starts with a survey of results concerning existence of solutions of the BBGKY hierarchy for a system of hard spheres It is followed a by a justification of the Boltzmann Grad limit b a derivation of the stochastic dynamics from the Hamiltonian dynamics of hard spheres in the Boltzmann Grad limit and c a derivation of the Ito Liouville equation In the next chapter the stochastic Boltzmann hierarchy with boundary conditions is derived from the stochastic dynamics of point particles Subsequently the existence of solutions of the stochastic Boltzmann hierarchy is proved and the property of chaos is established and these results are used to deduce the Boltzmann equation Book Jacket   **Foundations of Statistical Mechanics** Walter Grandy,1987-05-31 In a certain sense this book has been twenty five years in the writing since I first struggled with the foundations of the subject as a graduate student It has taken that long to develop a deep appreciation of what Gibbs was attempting to convey to us near the end of his life and to understand fully the same ideas as resurrected by E T Jaynes much later Many classes of students were destined to help me sharpen these thoughts before I finally felt confident that for me at least the foundations of the subject had been clarified sufficiently More than anything this work strives to address the following questions What is statistical mechanics Why is this approach so extraordinarily effective in describing bulk matter in terms of its constituents The response given here is in the form of a very definite point of view the principle of maximum entropy PME There have been earlier attempts to approach the subject in this way to be sure reflected in the books by Tribus Thermostat ics and Thermodynamics Van Nostrand 1961 Baierlein Atoms and Information Theory Freeman 1971 and Hobson Concepts in Statistical Mechanics Gordon and Breach 1971   **Seminar on Dynamical Systems** Lazutkin,Kuksin,Pöschel,2013-06-29 The Dynamical Systems Semester took place at the Euler International Mathematical Institute in St Petersburg Russia in the autumn of 1991 There were two workshops October 14 25 and November 18 29 with more than 60 participants giving 70 talks The titles of all talks are given at the end of this volume Here we included 22 papers prepared by the authors especially for this volume while the material of the other talks are published elsewhere The semester was sponsored by the Soviet Academy of Sciences and UN ESCO Since the new building of the Euler Institute was not ready at that moment the sessions were held in the old building of the Steklov Mathemati cal Institute in the very center of St Petersburg Members of the staff of the Euler Institute were doing their best to organize properly the normal processing of the conference not a simple task at that time because of the complications in the political and economical life in Russia just between the coup d etat in August and the dismantling of the Soviet Union in December We are thankful to all of them

Many-Particle Dynamics and Kinetic Equations C. Cercignani,U.I. Gerasimenko,D.Y. Petrina,2012-12-06 As our title suggests there are two aspects in the subject of this book The first is the mathematical investigation of the dynamics of infinite systems of in teracting particles and the description of the time evolution of their states The second is the rigorous derivation of kinetic equations starting from the results of the aforementioned investigation As is well known statistical mechanics started in the last century with some papers written by Maxwell and Boltzmann Although some of their statements seemed statistically obvious we must prove that they do not contradict what me chanics predicts In some cases in particular for equilibrium states it turns out that mechanics easily provides the required justification However things are not so easy if we take a step forward and consider a gas is not in equilibrium as is e g the case for air around a flying vehicle Questions of this kind have been asked since the dawn of the kinetic theory of gases especially when certain results appeared to lead to paradoxical conclu sions Today this matter is rather well understood and a rigorous kinetic theory is emerging The importance of these developments stems not only from the need of providing a careful foundation of such a basic physical theory but also to exhibit a prototype of a mathematical construct central to the theory of non equilibrium phenomena of macroscopic size **Mathematical Foundations of Statistical Mechanics** A. Ya. Khinchin,2013-01-17 Phase space ergodic problems central limit theorem dispersion and distribution of sum functions Chapters include Geometry and Kinematics of the Phase Space Reduction to the Problem of the Theory of Probability and more **Statistical Physics I** M. Toda,R. Kubo,N. Saito,2012-12-06 This first volume of Statistical Physics is an introduction to the theories of equilibrium statistical mechanics whereas the second volume Springer Ser Solid State Sci Vol 31 is devoted to non equilibrium theories Particular emphasis is placed on fundamental principles and basic con cepts and ideas We start with physical examples of probability and kinetics and then describe the general principles of statistical mechanics with appli cations to quantum statistics imperfect gases electrolytes and phase tran sitions including critical phenomena Finally ergodic problems the me chanical basis of statistical mechanics are presented The original text was written in Japanese as a volume of the Iwanami Series in Fundamental Physics supervised by Professor H Yukawa The first edition was published in 1973 and the second in 1978 The English edition has been divided into two volumes at the request of the publisher and the chapter on ergodic problems which was at the end of the original book is included here as Chapter 5 Chapters 1 2 3 and part of Chapter 4 were written by M Toda and Chapters 4 and 5 by N Saito More extensive references have been added for further reading and some parts of the final chapters have been revised to bring the text up to date It is a pleasure to express my gratitude to Professor P Fulde for his detailed improvements in the manuscript and to Dr H Lotsch of Springer Verlag for his continued cooperation **Linear infinite-particle operators** V. A. Malyshev Robert Adol_fovich Minlos,1995-02-13 The main subject of this book can be viewed in various ways From the standpoint of functional analysis it studies spectral properties of a certain class of linear operators from the viewpoint of probability theory it is concerned with the analysis of singular Markov processes and

from the vantage point of mathematical physics it analyzes the dynamics of equilibrium systems in quantum statistical physics and quantum field theory Malyshev and Minlos describe two new approaches to the subject which have not been previously treated in monograph form They also present background material which makes the book accessible and useful to researchers and graduate students working in functional analysis probability theory and mathematical physics   Making Sense of Statistical Mechanics Jean Bricmont,2022-02-11 Many people including physicists are confused about what the Second Law of thermodynamics really means about how it relates to the arrow of time and about whether it can be derived from classical mechanics They also wonder what entropy really is Is it all about information But if so then what is its relation to fluxes of heat One might ask similar questions about probabilities Do they express subjective judgments by us humans or do they reflect facts about the world i e frequencies And what notion of probability is used in the natural sciences in particular statistical mechanics This book addresses all of these questions in the clear and pedagogical style for which the author is known Although valuable as accompaniment to an undergraduate course on statistical mechanics or thermodynamics it is not a standard course book Instead it addresses both the essentials and the many subtle questions that are usually brushed under the carpet in such courses As one of the most lucid accounts of the above questions it provides enlightening reading for all those seeking answers including students lecturers researchers and philosophers of science   Statistical Physics I Morikazu Toda,Ryogo Kubo,Nobuhiko Saito,2012-12-06 Statistical Physics I discusses the fundamentals of equilibrium statistical mechanics focussing on basic physical aspects No previous knowledge of thermodynamics or the molecular theory of gases is assumed Illustrative examples based on simple materials and photon systems elucidate the central ideas and methods   **Statistical Mechanics And Scientific Explanation: Determinism, Indeterminism And Laws Of Nature** Valia Allori,2020-04-22 The book explores several open questions in the philosophy and the foundations of statistical mechanics Each chapter is written by a leading expert in philosophy of physics and or mathematical physics Here is a list of questions that are addressed in the book

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