

MATHEMATICAL FOUNDATIONS OF CLASSICAL STATISTICAL MECHANICS

CONTINUOUS SYSTEMS

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

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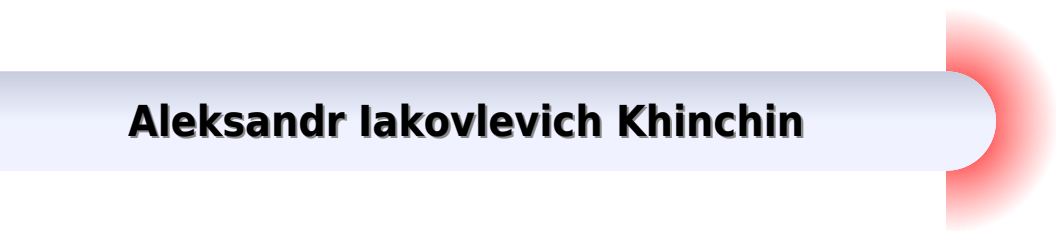
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Mathematical Foundations Of Classical Statistical Mechanics

Aleksandr Iakovlevich Khinchin



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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** 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 Classical Statistical Mechanics** Dmitrii I?Akovlevich Petrina,Viktor Ivanovich Gerasimenko,Petr Vital'evich 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 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 presentation 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 infinite 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 according 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 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

Statistical Mechanics and the Theory of Dynamical Systems Nikolaï Nikolaevich

Bogoliubov, Nikolaï Nikolaevich Bogoliubov, 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

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

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

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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

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