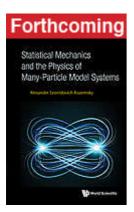
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Statistical Mechanics and the Physics of Many-Particle Model Systems

By (author): Alexander Leonidovich Kuzemsky (Joint Institute for Nuclear Research, Russia)

- About This Book
- About the Author(s)

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.

Contents:

- Probability, Information and Physics
- Dynamics of Particles
- Perturbation Theory
- Scattering Theory
- Green Functions Method in Mathematical Physics
- Symmetry and Invariance
- The Angular Momentum and Spin

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- Equilibrium Statistical Thermodynamics
- Dynamics and Statistical Mechanics
- Thermodynamic Limit in Statistical Mechanics
- Maximum Entropy Principle
- Band Theory and Electronic Properties of Solids
- Magnetic Properties of Substances and Materials
- Statistical Physics of Many-Particle Systems
- Thermodynamic Green Functions
- Applications of the Green Functions Method
- Spin Systems and the Green Functions Method
- Correlated Fermion Systems on a Lattice. Hubbard Model
- Correlated Fermion Systems on a Lattice. Anderson Model
- Spin-Fermion Model of Magnetism: Quasiparticle Many-Body Dynamics
- Spin-Fermion Model of Magnetism: Theory of Magnetic Polaron
- Quantum Protectorate and Microscopic Models of Magnetism
- Quasiaverages and Symmetry Breaking
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- Spectral Properties of the Generalized Spin-Fermion Models
- ullet Correlation Effects in High- T_{c} Superconductors and Heavy Fermion Compounds
- Generalized Mean Fields and Variational Principle of Bogoliubov
- Nonequilibrium Statistical Thermodynamics
- Method of the Nonequilibrium Statistical Operator
- Nonequilibrium Statistical Operator and Transport Equations
- Applications of the Nonequilibrium Statistical Operator
- Generalized Van Hove Formula for Scattering of Particles by Statistical Medium
- Electronic Transport in Metallic Systems

Readership: Graduate students and researchers interested in the field of statistical mechanics, condensed matter physics and many-particle systems.

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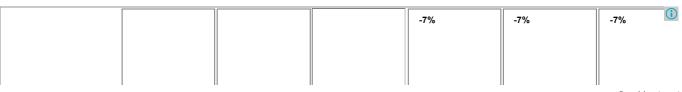
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