



Introduction to modern statistical physics: a set of lectures

By Zaitev, R.O.

Editorial URSS, 2008. soft. Book Condition: New. Encuadernación: rústica The aim of this book is to add certain new topics to the material of the famous textbook "Statiscal physics" by L. D. Landau and E. M. Lifshitz. High-temperature corrections to the thermodynamic potential are calculated by employing rind diagrams and also by expanding in powers of the gas parameter. The universality hypothesis gives a possibility to calculate critical exponents in the framework of perturbation theory. Summation of the most strongly diverging diagrams yields parquet equations. Solving these equations, the singular specific heat and magnetic susceptibility are determinde in the (4-epsilon)-dimensional space. The gradient-invariant microscopic equations which describe a superconductig state are derived. Using these equations, the Ginsburg--Landau equations together with the microscopic boundary conditions are obtained. The critical magnetic field of forming superconducting nuclei is calculate. The tunneling effects between two superconductors (the Josephson effect) and also between a superconductor and a normal metal are studied. The microscopic description of the Meissner effect, calculation of the spin susceptibility in a superconductor (the Knight shift) are given. The book is intended for researchers, graduate and undergraduate studentes studying the theroy of condensed matter. Rogdai Olegovich Zaitsev was born in Moscow in...

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