

<<统计力学>>

图书基本信息

书名：<<统计力学>>

13位ISBN编号：9787506266215

10位ISBN编号：7506266210

出版时间：2004-4

出版时间：世图

作者：G.Morandi F.Napoli E.Ercolessi

页数：648

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

## &lt;&lt;统计力学&gt;&gt;

## 书籍目录

Preface Chapter 1 Thermodynamics 1.1 A Recollection of Basic Notions in Classical Thermodynamics 1.2 Thermodynamic Potentials, Stability Conditions 1.3 A Mathematical Digression: Integrating Factors and Thermodynamics of Paramagnetic Bodies 1C Some Relations on Partial Derivatives & Jacobians 1D A Digression on: Integrability Conditions Problems Chapter 2 Equilibrium Classical Statistical Mechanics 2.1 Foundations of Classical Statistical Mechanics 2.2 Statistical Ensembles in CSM: Micro-canonical Ensemble 2.3 Statistical Ensembles in CSM: Canonical and Grand-Canonical Ensembles 2.4 Response, Correlations and Fluctuations: I Classical 2A Harmonic Oscillators & Ergodicity 2B The Volume Phase Space for a Perfect Gas 2C Density-Density Correlation Function of a Perfect Gas Problems Chapter 3 Spin Hamiltonians I: Classical 3.1 Spin Hamiltonians 3.2 Gaussian Identities for Spin Hamiltonians 3.3 Mean Field Theory and Phase Transitions 3.4 Linearized Spin Dynamics: Spin Waves, Response and Correlations 3.5 SSE, Goldstone and Mermin-Wagner Theorems 3A Poisson Description of Spin Dynamics 3B Perturbation expansions and the Classical Analogue of Wick's Theorem 3C "Conventional" Mean Field Theory 3D Some Group-Theoretical Aspects Related to SSB Problems Chapter 4 Equilibrium Quantum Statistical Mechanics 4.1 Resume of Quantum Mechanics 4.2 Foundations of Quantum Statistical Mechanics: Ensembles 4.3 Response, Correlations and Fluctuations II: Quantum 4A Two-level Systems Chapter 5 Identical Particles in Quantum Statistical Mechanics 5.1 Statistics and Identical Particles in QSM 5.2 Fock Spaces & Second Quantization 5.3 Quantum Gases and Beyond Problems Chapter 6 Spin Hamiltonians II: Quantum 6.1 The Heisenberg Model Hamiltonian 6.2 Partition Function and Path Integrals 6.3 Mean-Field Approximations and SSB: ferro and Antiferro Magnetism Problems Chapter 7 Phase Transitions and Critical Phenomena 7.1 Introduction to Phase Transitions ... ... Chapter 8 Model Systems, Scaling Laws and Mean Field Chapter 9 Superfluids and Superfluidity Chapter 10 The Renormalization Group and Critical Phenomena Appendix A Mathematical Digression : Differentiable Manifolds and Exterior Calculus Appendix B Mathematical Digression : Some Mathematics of Hilbert Spaces Appendix C Linear Stability Theory Appendix D Eigenvalue and Eigenvector Problems for NonSymmetric Matrices Bibliography Index

<<统计力学>>

编辑推荐

This is the second, revised and enlarged edition of a book on Statistical Mechanics whose first edition appeared in the year 1995. No doubt there are many excellent books on Statistical Mechanics, ranging from classical ones (like Tolman's [152], Schrodinger's [132] and LandauLifshitz's [83], e.g.) to more modern ones. A partial list of them is contained in the Bibliography listed at the end of the book..... 此书为英文版。

<<统计力学>>

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>