

<<统计物理学方法>>

图书基本信息

书名：<<统计物理学方法>>

13位ISBN编号：9787506260121

10位ISBN编号：7506260123

出版时间：2003-9

出版时间：世界图书出版公司

作者：T.Tanaka

页数：293

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>

## <<统计物理学方法>>

### 内容概要

This book may be used as a textbook for the first or second year graduate student who is studying concurrently such topics as theory of complex analysis, classical mechanics, classical electrodynamics, and quantum mechanics. In a textbook on statistical mechanics, it is common practice to deal with two important areas of the subject: mathematical formulation of the distribution laws of statistical mechanics, and demonstrations of the applicability of statistical mechanics.

<<统计物理学方法>>

书籍目录

Preface Acknowledgements 1 The laws of thermodynamics 1.1 The thermodynamic system and processes 1.2 The zeroth law of thermodynamics 1.3 The thermal equation of state 1.4 The classical ideal gas 1.5 The quasistatic and reversible processes 1.6 The first law of thermodynamics 1.7 The heat capacity 1.8 The isothermal and adiabatic processes 1.9 The enthalpy 1.10 The second law of thermodynamics 1.11 The Carnot cycle 1.12 The thermodynamic temperature 1.13 The Carnot cycle of an ideal gas 1.14 The Clausius inequality 1.15 The entropy 1.16 General integrating factors 1.17 The integrating factor and cyclic processes 1.18 Hausen's cycle 1.19 Employment of the second law of thermodynamics 2.20 The universal integrating factor Exercises2 Thermodynamic relations 2.1 Thermodynamic potentials 2.2 Maxwell relations3 The ensemble theory4 System Hamiltonians5 The density matrix6 The cluster variation method7 Infintite-series repretations of correlation functions8 The extended mean-field approximation9 The exact Ising lattice identities10 Propagation of short range order11 Phase transition of the two-dimensional Ising modelAppendix1 The gamma functionAppendix2 The critical exponent in the tetrahedron approximationAppendix3 Programming organization of cluster variation methodAppendix4 A unitary transformation applied to the Hubbard HamiltonianAppendix5 Exact Ising identities on the diamond latticeReferencesBibliographyIndex

<<统计物理学方法>>

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>