

<<从秩序到混沌>>

图书基本信息

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内容概要

This book is a compilation of the review papers, expositions and some of the technical works of Leo Kadanoff, a theoretical physicist. The objective is to put together a group of not-too-technical writing in which he discusses some issues in condensed matter physics, hydrodynamics, applied mathematics and national policy. This expanded edition is divided into five sections. The first section contains review papers on hydrodynamics, condensed matter physics and field theory. Next is a selection of papers on scaling and universality, particularly as applied to phase changes. A change of pace is provided by a series of papers on the critical analysis of simulation models of urban economic and social development. The book concludes with a series of recent papers on complex patterns. Each major section has an introduction designed to tie the work together and to provide perspective on the subject matter.

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## 书籍目录

List of Publications

General Introduction: The Worlds of Science

A. Fundamental Issues in Hydrodynamics, Condensed Matter and Field Theory From Level to Level

1. On Two Levels
2. Hydrodynamic Equations and Correlation Functions (with P. C. Martin)
3. The Electron-Phonon Interaction in Normal and Superconducting Metals
4. Wave-Function Fluctuations in Finite Superconductors
5. The Application of Renormalization Group Techniques to Quarks and Strings
6. Disorder Variables and Para-Fermions in Two-Dimensional Statistical Mechanics (with E. Fradkin)
7. Computational Physics: Pluses and Minuses
8. Cathedrals and Other Edifices
9. From Neutrinos to Quasiparticles

B. Scaling and Phase Transitions

On the Joys of Creation

1. Spin-Spin Correlation in the Two-Dimensional Ising Model
2. Scaling Laws for Ising Models Near  $T_c$
3. Static Phenomena Near Critical Points: Theory and Experiment (with W. GStze, D. Hamblen, R. Heeht, E. A. S. Lewis, V. V. Palciauskas, M. Rayl, J. Swift, D. Aspnes and J. W. Kane)
4. Transport Coefficients Near the Critical Point: A Master-Equation Approach
5. Transport Coefficients Near the Liquid-Gas Critical Point
6. The Droplet Model and Scaling
7. Critical Behavior. Universality and Scaling
8. Scaling, Universality and Operator Algebras
9. Determination of an Operator Algebra for the Two-Dimensional Ising Model
10. Teaching the Renormalization Group
11. Scaling and Universality in Statistical Physics

C. Simulations, Urban Studies, and Social Systems Models and Arguments

1. Computer Display and Analysis of Urban Information Through Time and Space
2. From Simulation Model to Public Policy: An Examination of Forrester's "Urban Dynamics"
3. Public Policy Conclusions from Urban Growth Models
4. A Simulation Model of Urban Labor Markets and Development Policy
5. The Big, the Bad and the Beautiful
6. Hard Times
7. Greats

D. Turbulence and Chaos

Questions Without Answers

1. Roads to Chaos
2. Chaos: A View of Complexity in the Physical Sciences
3. From Periodic Motion to Unbounded Chaos: Investigations of the Simple Pendulum.....

E. Complex Patters From Correlation to Complexity

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