David A. Lavis

Equilibrium Statistical Mechanics of Lattice Models

Equilibrium Statistical Mechanics Of Lattice Models Theoretical And Mathematical Physics

David Lavis,George M. Bell

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Nonequilibrium and Irreversibility Giovanni Gallavotti,2025-05-31 This 2nd edition of the book focuses on the properties of stationary states in chaotic systems of particles or fluids setting aside the theory of how these states are achieved The second edition has been thoroughly revised and includes numerous corrections It incorporates recent findings with particular emphasis on the equivalence between irreversible and reversible equations The ongoing debate over reversibility and irreversible behavior is frequently discussed The book seeks to unify the study of stationary nonequilibrium states with that of equilibrium states using the paradigm offered by the simplest chaotic systems specifically Anosov systems The book begins by exploring the time invariant distributions relevant to physics A distinctive feature of this work is its historical approach To clarify foundational issues the author analyzes the works of pioneering figures like Boltzmann Clausius and Maxwell including translated excerpts of key historical documents Additionally the author establishes a close connection between the treatment of irreversible phenomena in statistical mechanics and the theory of chaotic systems particularly at and beyond the onset of turbulence as developed by Sinai Ruelle and Bowen SRB and others Arguments are presented to strongly support the perspective that stationary states whether in equilibrium or not can be described in a unified framework The book offers extensive coverage of contemporary research presented in sufficient detail to give advanced students a sense of the ongoing research directions in this dynamic field Proofs of theorems are generally limited to heuristic outlines favoring the presentation of concepts and providing references for further study thereby avoiding an overload of technical detail in the main text *Mathematical Physics II: Classical Statistical Mechanics* Matteo Petrera,2014 These Lecture Notes provide an introduction to classical statistical mechanics The first part presents classical results mainly due to L Boltzmann and J W Gibbs about equilibrium statistical mechanics of continuous systems Among the topics covered are kinetic theory of gases ergodic problem Gibbsian formalism derivation of thermodynamics phase transitions and thermodynamic limit The second part is devoted to an introduction to the study of classical spin systems with special emphasis on the Ising model The material is presented in a way that is at once intuitive systematic and mathematically rigorous The theoretical part is supplemented with concrete examples and exercises **Probability on Discrete Structures** Harry Kesten,2013-03-14 Most probability problems involve random variables indexed by space and or time These problems almost always have a version in which space and or time are taken to be discrete This volume deals with areas in which the discrete version is more natural than the continuous one perhaps even the only one than can be formulated without complicated constructions

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Table of Contents Equilibrium Statistical Mechanics Of Lattice Models Theoretical And Mathematical Physics

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