



# Phase Transitions: Modern Applications

*Moshe Gitterman*

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# Phase Transitions:Modern Applications

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## **Phase Transitions:Modern Applications** Moshe Gitterman

This book provides a comprehensive review of the theory of phase transitions and its modern applications, based on the five pillars of the modern theory of phase transitions: the Ising model, mean field, scaling, renormalization group and universality. This expanded second edition includes, along with a description of vortices and high temperature superconductivity, a discussion of phase transitions in chemical reactions and moving systems. The book covers the close connection between phase transitions and small world phenomena as well as scale-free systems such as the stock market and the Internet.

### **Contents:**

- Phases and Phase Transitions
- Thermodynamics of Phase Transitions
- The Ising Model
- Mean Field Theory
- Scaling
- The Renormalization Group
- Phase Transitions in Quantum Systems
- Universality
- Phase Transitions in Reactive Systems
- Phase Transitions in Moving Systems
- Random and Small World Systems
- Self-Organized Criticality

**Readership:** Scientists working in different fields of physics, chemistry, biology and economics as well as teaching material for undergraduate and graduate courses.

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