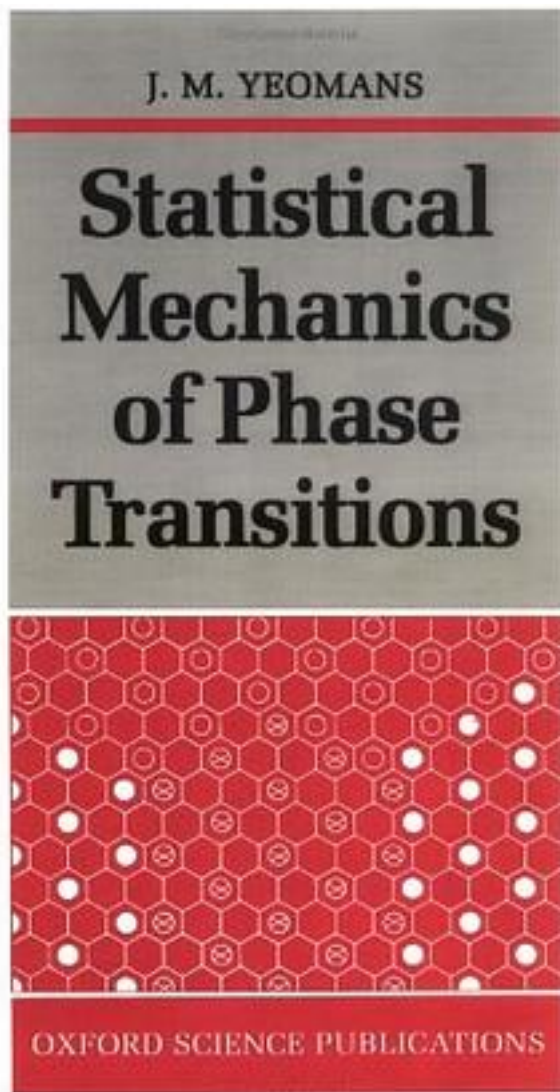


Statistical Mechanics of Phase Transitions



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Recent developments have led to a good understanding of universality; why phase transitions in systems as diverse as magnets, fluids, liquid crystals, and superconductors can be brought under the same theoretical umbrella and well described by simple models. This book describes the physics underlying universality and then lays out the theoretical approaches now available for studying phase transitions. Traditional techniques, mean-field theory, series expansions, and the transfer matrix, are described; the Monte Carlo method is covered, and two chapters are devoted to the renormalization group, which led to a break-through in the field. The book will be useful as a textbook for a course in 'Phase Transitions', as an introduction for graduate students undertaking research in related fields, and as an overview for scientists in other disciplines who work with phase transitions but who are not aware of the current tools in the armoury of the theoretical physicist.

作者介绍:

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标签

statistical

mechanics

评论

作为一个完全的外行，我对于很多概念不是太理解，完全是老板希望我了解一下phase transition，也算是开了个眼界吧。

入门图书，概念解释挺清楚的

书评