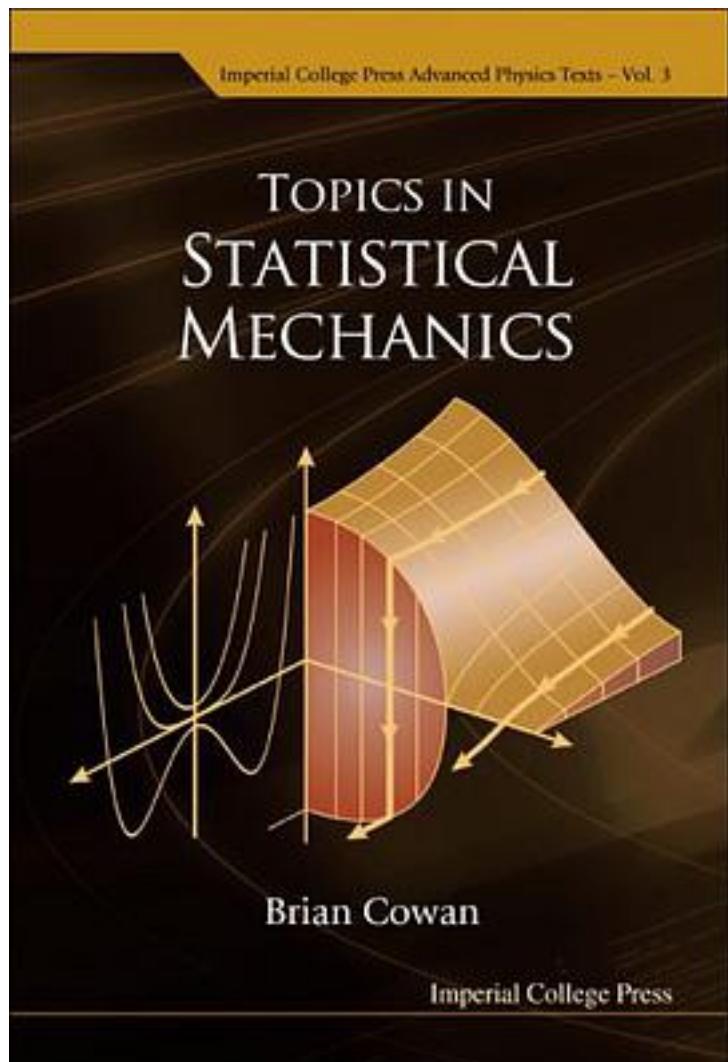


Topics In Statistical Mechanics



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Building on the material learned by students in their first few years of study, this book presents an advanced level course on statistical and thermal physics. It begins with a review of the formal structure of statistical mechanics and thermodynamics considered from a unified viewpoint. After a brief revision of non-interacting systems, emphasis is laid on interacting systems. First, weakly interacting systems are considered, where the interest is in seeing how such interactions cause small deviations from the non-interacting case. Second, systems are examined where interactions lead to drastic changes, namely phase transitions. A number of specific examples are given, and these are unified within the Landau theory of phase transitions. The final chapter of the book looks at non-equilibrium systems and the way these evolve towards equilibrium. Here, fluctuations play a vital role, as is formalized in the Fluctuation-Dissipation theorem.

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书评

这本书很短,只有不到300页的阅读内容,可是我却看了20天才看完.
而且还略去了相变中讨论铁电和电磁方面的内容. 书写得简短,
所以有的地方就需要自己进行脑补,也就比较难了. 阅读这本书之前最好有微积分,
线性代数,复分析,统计学方面的一点背景知识,幸好我最近都有补课,否...

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