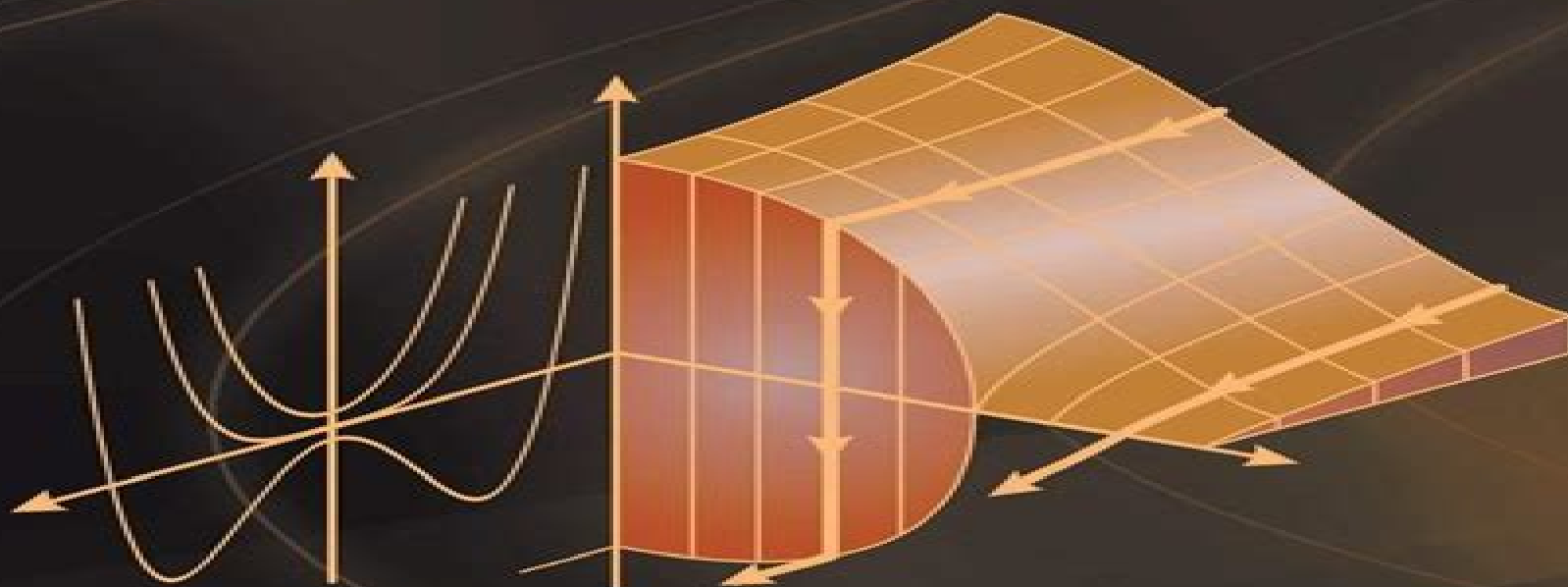


TOPICS IN STATISTICAL MECHANICS



Brian Cowan

Imperial College Press

Topics In Statistical Mechanics Imperial College Press
Advanced Physics Texts

Kim Christensen, Nicholas R Moloney



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Topics in Statistical Mechanics Brian Cowan, 2005-09-14 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 Contents The Methodology of Statistical Mechanics Practical Calculations with Ideal Systems Non Ideal Gases Phase Transitions Fluctuations and Dynamics Readership Upper undergraduate and postgraduate students of statistical mechanics **Mathematical Reviews**, 2007 *Statistical Physics* Ian Ford, 2013-03-27 This undergraduate textbook provides a statistical mechanical foundation to the classical laws of thermodynamics via a comprehensive treatment of the basics of classical thermodynamics equilibrium statistical mechanics irreversible thermodynamics and the statistical mechanics of non equilibrium phenomena This timely book has a unique focus on the concept of entropy which is studied starting from the well known ideal gas law employing various thermodynamic processes example systems and interpretations to expose its role in the second law of thermodynamics This modern treatment of statistical physics includes studies of

neutron stars superconductivity and the recently developed fluctuation theorems It also presents figures and problems in a clear and concise way aiding the student's understanding

Complexity and Criticality Kim Christensen, Nicholas R Moloney, 2005-10-03 This book provides a challenging and stimulating introduction to the contemporary topics of complexity and criticality and explores their common basis of scale invariance a central unifying theme of the book Criticality refers to the behaviour of extended systems at a phase transition where scale invariance prevails The many constituent microscopic parts bring about macroscopic phenomena that cannot be understood by considering a single part alone The phenomenology of phase transitions is introduced by considering percolation a simple model with a purely geometrical phase transition thus enabling the reader to become intuitively familiar with concepts such as scale invariance and renormalisation The Ising model is then introduced which captures a thermodynamic phase transition from a disordered to an ordered system as the temperature is lowered in zero external field By emphasising analogies between percolation and the Ising model the reader's intuition of phase transitions is developed so that the underlying theoretical formalism may be appreciated fully These equilibrium systems undergo a phase transition only if an external agent finely tunes certain external parameters to particular values Besides fractals and phase transitions there are many examples in Nature of the emergence of such complex behaviour in slowly driven non equilibrium systems earthquakes in seismic systems avalanches in granular media and rainfall in the atmosphere A class of non equilibrium systems not constrained by having to tune external parameters to obtain critical behaviour is addressed in the framework of simple models revealing that the repeated application of simple rules may spontaneously give rise to emergent complex behaviour not encoded in the rules themselves The common basis of complexity and criticality is identified and applied to a range of non equilibrium systems Finally the reader is invited to speculate whether self organisation in non equilibrium systems might be a unifying concept for disparate fields such as statistical mechanics geophysics and atmospheric physics Visit <http://www.complexityandcriticality.com> for animations for the models in the book available for Windows and Linux solutions to exercises as well as a list with corrections

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