

Download Statistical Physics Lecture Notes

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Mathematical preparation course before Studying Physics Hefft: 2006: Heidelberg: Mathematischer Vorkurs
zum Studium der Physik This concise set of course-based notes provides the reader with the main concepts and
tools needed to perform statistical analyses of experimental data, in particular in the field of high-energy physics
(HEP). This is the second term in a two-semester course on statistical mechanics. Basic principles are examined
in this class, such as the laws of thermodynamics and the concepts of temperature, work, heat, and entropy.
Topics from modern statistical mechanics are also explored, including the hydrodynamic limit and classical
field theories.