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this course offers an introduction to probability statistical mechanics and thermodynamics numerous examples are used to illustrate a wide variety of physical phenomena such as magnetism polyatomic gases thermal radiation electrons in solids and noise in electronic devices introduction to statistical physics introduces the concepts and formalism at the foundations of statistical physics by the end of the course students should understand qualitative and quantitative definitions of entropy the implications of the laws of thermodynamics and why the boltzmann distribution is important show more statistical physics explains and quantitatively describes superconductivity superfluidity turbulence collective phenomena in solids and plasma and the structural features of liquid it underlies the modern astrophysics in solid state physics statistical physics aids the study of liquid crystals phase transitions and critical phenomena statistical mechanics is the art of turning the microscopic laws of physics into a de scription of nature on a macroscopic scale suppose you ve got theoretical physics cracked the statistical description of physical systems 2 1 microstates and macrostates 2 2 the density of states 2 3 the postulate of equal a priori probabilities 2 4 time averages and ensemble averages in this two semester course basic principles are examined topics include thermodynamics probability theory kinetic theory classical statistical mechanics interacting systems quantum statistical mechanics and identical particles this book presents an introduction to the main concepts of statistical physics followed by applications to specific problems and more advanced concepts selected for their pedagogical or practical interest intended for beginning graduate students or advanced undergraduates this text covers the statistical basis of equilibrium thermodynamics both classical and quantum including examples from solid state physics authors daijiro yoshioka most comprehensive presentation of the basics of statistical physics also featuring applications to quantum dynamics thermodynamics ising model and statistical dynamics of free spins includes supplementary material sn pub extras 35k accesses written by a world renowned theoretical physicist introduction to statistical physics second edition clarifies the properties of matter collectively in terms of the physical laws governing atomic motion we will introduce and discuss in details the three main ensembles of statistical physics namely the micro canonical canonical and grand canonical ensembles we will also see how we can create mechanical there are two textbooks for this class schroeder s an introduction to thermal physics and jaffe s the physics of energy we ll have a reading list that explains which sections correspond to each lecture a rigorous and educational approach of statistical physics illustrated with concrete examples a clear presentation of fundamental aspects of statistical physics many exercises with detailed solutions statistical mechanics this classic text first published in 1972 is designed for graduate physics courses in statisti

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