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We give some schematic solutions of exercises from chapters 1 to 10 of "Introduction to Statistical Physics", by Silvio R. A. Salinas, first published by Springer, New York, in 2001. We also add a number of corrections and some new exercises. Additional corrections and suggestions are warmly welcomed. Silvio Salinas

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Physics 607, Statistical Mechanics - Texas A&M University

Statistical Mechanics explores the physical properties of matter based on the dynamic behavior of its microscopic constituents. After a historical introduction, this book presents chapters about thermodynamics, ensemble theory, simple gases theory, Ideal Bose and Fermi systems, statistical mechanics of interacting systems, phase transitions, and computer simulations.

Statistical Mechanics | ScienceDirect

The development of statistical mechanics also grew out of the kinetic theory of gasses. Daniel Bernoulli (1700-1782) accounted for the pressure exerted by a gas on the walls of its container in terms of collisions of molecules against the wall.

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Pathria is also the author of a well-known graduate text book on Statistical Mechanics, which has recently appeared in its third edition. Pathria is known for his work on Superfluidity in liquid helium, Lorentz transformation of thermodynamic quantities, a rigorous evaluation of lattice sums and finite-size effects in phase transitions.

Statistical Mechanics by R.K. Pathria - Goodreads

Pathria (physics, U. of Waterloo) views his subject as an indispensable tool to physics and takes in hand a complete review of the statistical basis of thermodynamics, the elements of ensemble theory, the canonical ensemble, the formulation of quantum statistics, ideal Bose and Fermi systems, and the statistical mechanics of interacting systems.

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