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This is a concise, but very readable, introduction to statistical thermodynamics. It's similar to the book by Maczek in that it aims to present all of the basics in a very slim volume, with little digression on examples, applications, or extraneous discussion. This book is a bit chattier however, with a fairly slow-paced introduction to statistics and derivation of Boltzmann statistics.

Elements of Statistical Thermodynamics by Leonard K. Nash

Statistical Thermodynamics: Concepts • Statistical thermodynamics -- link between microscopic properties of matter and its bulk properties. • Two key ideas: Boltzmann distribution predicts populations of states in systems at thermal equilibrium. Its derivation in terms of the distribution of particles over available states.

Chapter 16 Statistical thermodynamics 1: the concepts

The Elements of Statistical Learning: Data Mining, Inference, and Prediction. Second Edition
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The first principle of thermodynamics is explored in terms of energy, enthalpy, thermochemistry and Hess's Law, heat capacity, Kirchhoff's equations, and adiabatic processes. Considerations of the second principle of thermodynamics encompass the Carnot cycle, the concept of entropy, and evaluation of entropy changes.

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The 1st law of thermodynamics — The 1 st law is the thermodynamic application of the principle of conservation of energy to thermal systems, relating internal (thermal) energy and macroscopic work. System thinking is critical here. The 2nd law of thermodynamics — The 2 nd law a new kind of

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principle: a probabilistic physical law. Due to the large number of particles in the systems we typically consider, the randomness of thermal motion averages out and leads to a number of powerful tools ...

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Statistical Thermodynamics by Erwin Schrodinger, Paperback ...

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