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Classical vs. Statistical Thermodynamics. Substances consist of large number of particles called molecules. The properties of the substance naturally depend on the behavior of these particles. For example, the pressure of a gas in a container is the result of momentum transfer between the molecules and the walls of the container.

FUNDAMENTALS OF CLASSICAL AND STATISTICAL THERMODYNAMICS

Actually, it is virtually impossible to measure the pressure, volume, or temperature of a gas to such accuracy, so most people just forget about the fact that the above expression is a statistical result, and treat it as a law of Physics interrelating the actual pressure, volume, and temperature of an ideal gas.

Thermodynamics & Statistical Mechanics

2.a Make a control volume around the turbine in the steam power plant in Fig. 1.1 and list the flows of mass and energy that are there. Solution: We see hot high pressure steam flowing in at state 1 from the steam drum through a flow control (not shown). The steam leaves at a lower pressure to the condenser (heat exchanger) at state 2.

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Thermodynamics and Statistical Mechanics

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Statistical Mechanics is a theory that establishes the connection between the observed properties of systems with many degrees of freedom and the microscopic quantum mechanical properties of the elementary constituents of the systems (e.g., electrons, atoms and molecules).

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Statistical thermodynamics. In other words, statistical thermodynamics provides a connection between the macroscopic properties of materials in thermodynamic equilibrium, and the microscopic behaviours and motions occurring inside the material.

Statistical mechanics - Wikipedia

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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