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introduced at appropriate times,

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constituent atoms or molecules, such as their average kinetic energy, but possess very little information about the motions of individualparticles.

Thermodynamics and Statistical Mechanics

Statistical mechanics, on the other Page 23/37

hand, relates and interprets the properties of a macroscopic system in terms of its microscopic units. Thermodynamics and Introductory Statistical Mechanics covers the necessary mathematical tools and computational techniques for understanding both, first providing a Page 24/37

separate overview of each and then illustrating and exploring the connections between the two.

Thermodynamics and Introductory Statistical Mechanics ...
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Edition by L.D. Landau, E. M. Lifshitz;

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Statistical Physics of Particles 1st Edition by Mehran Kardar; Statistical Mechanics 3rd Edition by R K Pathria, Paul D. Beale; One may also get interest into the book - 6. Introduction to Modern Statistical Mechanics 1st Edition by David Chandler.

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undergraduate courses in tical thermodynamics has been completely rewritten to explore a greater number of topics more clearly and concisely.

An Introduction to Thermodynamics and Statistical Mechanics
Statistical mechanics, one of the pillars
Page 28/37

of modern physics, describes how macroscopic observations are related to microscopic parameters that fluctuate around an average. It connects thermodynamic quantities to microscopic behavior, whereas, in classical thermodynamics, the only available option would be to measure Page 29/37

and tabulate such quantities for various materials. Statistical mechanics is necessary for the fundamental study of any physical system that has many degrees of freedom. The approach

Statistical mechanics - Wikipedia
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This introductory textbook for undergraduate courses in thermodynamics starts with an overview of important quantum behaviors, before introducing the ideas of classical thermodynamics and statistical mechanics.

An Introduction to Thermodynamics and Statistical ...

In his innovative new text, Carnegie Mellon University physics professor Robert Swendsen presents the foundations of statistical mechanics with, as he puts it, a detour through thermodynamics. That's a desirable

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