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Indeed, thermal physics has so many applications that no single author can possibly be an expert on all of them. In writing this book I've tried to learn and include as many applications as possible, to such diverse areas as chemistry, biology, geology, meteorology, environmental science , engineering, low-temperature physics, solid state physics, astrophysics , and cosmology.

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These are among the questions that we hope to shed light upon during this unit (and the next unit) of The Physics Classroom Tutorial. Like the laws of gravity, the unwritten laws of heat and energy seem to govern the thermal behavior of our bodies and those objects around us.

### **Introduction to Thermal Physics**

NOTES AND SOLUTIONS TO THERMAL PHYSICS BY CHARLES KITTLE AND HERBERT KROEMER ERNEST YEUNG - LOS ANGELES ABSTRACT. These are notes and solutions to Kittle and Kroemerâ€™s Thermal Physics. The solutions are (almost) complete: I will

### **NOTES AND SOLUTIONS TO THERMAL PHYSICS BY CHARLES KITTLE**

introduction to thermal physicsâ€™, Pearson Verlag. x Pure A Pure B 01 01x T =0 Highest T â†U mixing G Figure 5.26. Mixing A and B can often increase the energy of the system; shown at left is the simple case

where the mixing energy is a quadratic function (see Problem 5.58). Shown at right is the free energy in this case, at four different

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of thermodynamics, their basis in microscopic laws of physics, and an ability to apply the laws to simple systems such as an ideal gas, paramagnetic solid, an Einstein crystal etc.

**Physics 30 Spring 2008 Statistical Mechanics and**

Its a bit hard to judge as I can't say I am an expert in any of thermal physics, sub- or related disciplines like statistical mechanics, or in teaching... but as a student, I think this book was a very good, concise introduction.

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