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consequence of thermodynamics. • The relationships based upon it are completely independent of any microscopic explanation of chemical and physical phenomena. Classical thermodynamics is based on the four laws of thermodynamics. In thermodynamics we are concerned with the behavior of vast quantities of particles in the substances that we study.

### **FUNDAMENTALS OF CLASSICAL AND STATISTICAL THERMODYNAMICS**

Classical and Statistical Thermodynamics: A.S. Carter (Prentice-Hall, Upper Saddle River NJ, 2001).  
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statistical mechanics to elucidate gas phase and condensed phase behavior, as well as to establish a microscopic derivation of statistical thermodynamics. Classical results are obtained according to the classical limit of the quantum mechanical expressions. Topics include ensembles, Fermi,

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Lin, S.-K. Classical and Statistical Thermodynamics. Ashley H. Carter. Entropy 2002, 4, 165-167.

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