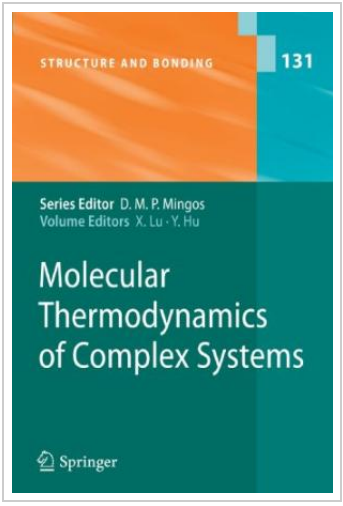

Molecular Thermodynamics of Complex Systems Structure and Bonding

By -

Springer. Paperback. Book Condition: New. Paperback. 274 pages. Dimensions: 8.9in. x 6.1in. x 0.8in.With the development of science and technology, more and more complex materials such as porous materials, ion liquid, liquid crystals, thin lms and colloids etc. are being developed in laboratories. However, it is difcult to prepare these advanced materials and use them on a large scale without some experience. Therefore, mo- cular thermodynamics, a method that laid emphasis on correlating and interpreting the thermodynamic properties of a variety of uids in the past, has been recently employed to study the equilibrium properties of complex materials and establish thermodynamic models to analyse the evolution process of their components, - crostructures and functions during the preparation process. In this volume, some important progress in this eld, from fundamental aspects to practical applications, is reviewed. In the rst chapter of this volume, Prof. Jianzhong Wu presents the application of Density Functional theory (DFT) for the study of the structure and thermodynamic properties of both bulk and inhomogeneous uids. This chapter presents a tut- ial overview of the basic concepts of DFT for classical systems, the mathematical relations linking the microstructure and correlation functions to measurable th- modynamic quantities, and the...

Reviews

Very good e-book and beneficial one. I am quite late in start reading this one, but better then never. I am effortlessly could get a pleasure of looking at a written book.

-- ***Alphonso Beahan***

This publication is indeed gripping and exciting. I could comprehended almost everything using this composed e publication. I am easily could possibly get a delight of looking at a composed pdf.

-- ***Lynn Lindgren***