



Molecular Thermodynamics of Complex Systems Structure and Bonding

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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

An exceptional ebook and the font employed was fascinating to read through. I actually have study and so i am certain that i will likely to read once again yet again in the future. Your life period is going to be change as soon as you complete looking at this book.

-- Nelle Schaefer I

Simply no words to spell out. It can be rally fascinating throgh studying period of time. You will not really feel monotony at at any moment of your own time (that's what catalogues are for concerning if you ask me).

-- Dr. Isabella Turner