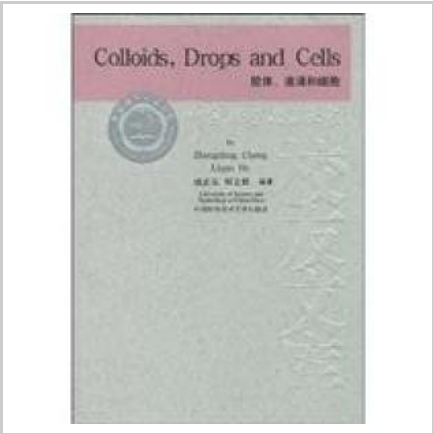

Colloids , Drops and Cells

By Cheng Zhengdong & He Liqun

China Science and Technology University Press, 2009. Soft cover. Book Condition: New. 185*260mm. Preface to the USTC Alumnis Series Preface Chapter 1 What Are Colloids? 1.1 Colloids and the atoms¿ counting the atoms 1.2 Micro-rheology Probe the material properties at microscopic level 1.3 Laser tweezers¿¿Apply external force to nanoparticles 1.4 Colloids 1.4.1 Miniature of the physical world and tangible .models of the atomic world 1.4 2 lnteligent" colloids Chapter 2 Colloids and Phase Transitions 2.1 The hard sphere model 2.1.1 The van der Waals picture of fluids 2.1.2 Close packing of spheres as the principle of crystal structure 2.1 3 Hard sphere model for disorder-order transition 2.2 Model colloidal hard sphere systems 2 2.1 Minimizing van der Waals interaction by refractive index matching 2 2.2 Stabilization 2.2.3 Model Colloidal Hard Spheres 2.3 Properties of hard sphere dispersions 2.3.1 Phase behavior 2.3.2 Equation of state continuing Perrins measurement at higher concentrations¿ 2.3.3 Rheology of the fluid and metastable fluid states 2.3.4 Crystal structures 2.3.5 Crystallization kinetics 2.4 Colloids in space 2.4.1 Surprising observations 2.4.2 Crystallization kinetics 2.5 Confocal Imaging¿ Catch the critical nucleus 2.6 How well do we understand nucleation? 2.7 Applications of colloidal crystals 2.8 Single crystal growth in a...

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