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	Autore	Feraudi, Benedetto
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""Title Page""; ""Contents""; ""Preface""; ""Course group shot"";  
 ""Colloidal interactions: From effective potentials to structure"";  
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 interactions""; ""Colloidal stabilization""; ""Charge stabilization"";  
 ""Steric stabilization""; ""Classical uniform fluids""; ""Nonuniform fluids:  
 density functional theory (DFT)""; ""The basic principles of DFT"";  
 ""Some useful results""; ""Accurate density functionals for soft  
 potentials""; ""Fluid-fluid interfaces""; ""Wetting""; ""Crystallization"";  
 ""Cluster crystals""  
 ""Density functional theory for polymer chains""""Summary and  
 conclusions""; ""Appendix A. Functionals and functional  
 differentiation""; ""Like-charge colloidal attraction: A simple  
 argument""; ""Introduction""; ""The model""; ""The large distance limit"";  
 ""From infinite to small inter-plate distances: the unbinding scenario"";  
 ""Discussion""; ""Unbinding scenario and ground-state structure"";  
 ""Back to the failure of mean-field""; ""Large distance behaviour"";  
 ""Asymmetric plates generalisation""; ""Conclusion""; ""Elastic properties  
 of colloidal solids with disorder""; ""Introduction""  
 ""Introduction to elasticity in the context of thermodynamics""""  
 Crystalline solids""; ""Born term""; ""Fluctuation term""; ""Density  
 functional approach""; ""On the comparison of the different  
 approaches""; ""Glasses""; ""Modified density functional approach"";  
 ""Replica theory approach""; ""Mode coupling theory approach"";  
 ""Conclusions and outlook""; ""Appendix A""; ""Colloidal arrested states  
 of matter""; ""Introduction""; ""The prototype colloidal glass: the hard-  
 sphere glass""; ""The role of polydispersity for the HS glass transition""  
 ""Hard spheres plus short-ranged attraction: attractive and repulsive  
 glasses""""Effective interactions: depletion and its consequences on  
 thermodynamics""; ""Dynamics in the presence of short-ranged  
 attraction""; ""Soft glasses: the case of star polymers""; ""Star polymer  
 solutions""; ""Binary mixtures of stars""; ""Further exploitation of  
 softness: the asymmetric glass""; ""Dynamical features of the star-star  
 multiple glasses""; ""Single glass""; ""Double glass""; ""Asymmetric  
 glass""; ""Gels: low-density, disordered, arrested states driven by  
 attraction""  
 ""Non-equilibrium gels resulting from arrested phase separation""""  
 Equilibrium gels of patchy particles""; ""Charged colloids: Wigner  
 glasses""; ""Competing interactions: cluster glasses and gels""; ""Gels of  
 elongated clusters (or cluster gels)""; ""Wigner glasses of clusters (or  
 cluster glasses)""; ""Appendix A. The ideal Mode Coupling Theory of the  
 glass transition""; ""Stochastic thermodynamics: A brief introduction"";  
 ""Preliminaries""; ""Introduction""; ""Nutshell thermodynamics"";  
 ""Nutshell equilibrium statistical mechanics""; ""Nutshell Master  
 equation""  
 ""Ensemble stochastic thermodynamics""

Colloids are systems comprised of particles of mesoscopic size  
 suspended in a liquid. They have recently been attracting increased  
 attention from scientists and engineers due to the fact that they are  
 nowadays present in many industrial products such as paints, oil  
 additives, electronic ink displays and drugs. Colloids also serve as  
 versatile model systems for phenomena and structures from solid-state  
 physics, surface science and statistical mechanics, and can easily be  
 studied using tabletop experiments to provide insight into processes  
 not readily accessible in atomic systems. This book prese