



Vás zve na seminář:

Lecture of Colloid and Surface Chemistry

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Abstract

Dispersed systems, as heterogeneous systems possess high energy due to their enhanced surface. This characteristic makes them unstable but offers them various physical properties such as light scattering, slow diffusion, dialysis, electrophoresis, etc. Often the addition of small amounts of electrolytes in such systems leads to drastical effects such as coagulation followed by sedimentation or system stability. The electrical double-layer existing in them, classified according to different theories, has a unique characteristic which is the zeta potential, often playing a crucial role in the fate of dispersed system stability. Several classification schemes based on different characteristics or parameters have been proposed for their regrouping, but still nowadays none of them can fully characterise them. The combination of the methods of their syntheses combined to the strategies of their modification in function of their stability makes nowadays one of the challenges of research and industrial applications.

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