



An Introduction to Dynamics of Colloids (Studies in Interface Science)

J.K.G. Dhont

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One of the few textbooks in the field, this volume deals with several aspects of the dynamics of colloids. A self-contained treatise, it fills the gap between research literature and existing books for graduate students and researchers. For readers with a background in chemistry, the first chapter contains a section on frequently used mathematical techniques, as well as statistical mechanics.

Some of the topics covered include:

- diffusion of free particles on the basis of the Langevin equation
- the separation of time, length and angular scales;
- the fundamental Fokker-Planck and Smoluchowski equations derived for interacting particles
- friction of spheres and rods, and hydrodynamic interaction of spheres (including three body interactions)
- diffusion, sedimentation, critical phenomena and phase separation kinetics
- experimental light scattering results.

For universities and research departments in industry this textbook makes vital reading.



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