

## Particle Deposition & Aggregation: Measurement, Modelling and Simulation (Colloid and Surface Engineering)

M. Elimelech, Xiadong Jia, John Gregory, Richard Williams



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# Particle Deposition & Aggregation: Measurement, Modelling and Simulation (Colloid and Surface Engineering) M. Elimelech, Xiadong Jia, John Gregory, Richard Williams Deposition and aggregation of small solid particles are encountered in many natural and industrial environments. Whether it be deposition of particles onto a surface immersed in a liquid suspension or aggregateion of individual particles, these processes are of enotmous significance. They are vital to the manufacture of magnetic tape, purification of water using packed bed filters, selective capture of solids, cells and macromolecular species, and many other applications.

This book presents a unified approach to the measurement, modelling and simulation of these processes, bringing together the disciplines of colliod and surface chemistry, hydrodynamics, and experimental and computational methods. It will be required reading for graduates working in process and environmental engineering, postgraduates involved in industrial R & D and for all scientists wishing to gain a more detailed and realistic understanding of process conditions in these areas.

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