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Particle Deposition and Aggregation: Measurement ...

Interactions governing the behavior of solid particles in microchannels (Wu and Kuhn 2014). a Deposition of particles is initiated by particle-fluid interactions transporting the solid to the microchannel wall where it finally sticks due to a dominating particle-surface interaction.b Increasing the particle-fluid interaction by, e.g., increasing the fluid velocity will lead to resuspension.

Aggregation and clogging phenomena of rigid microparticles ...

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Particle Deposition and Aggregation: Measurement, Modelling, and Simulation. Particle Deposition and Aggregation. : "Deposition and aggregation of small solid particles are encountered in many...

Particle Deposition and Aggregation: Measurement ...

Particle aggregation is a widespread phenomenon, which spontaneously occurs in nature but is also widely explored in manufacturing. Some examples include. Formation of river delta. When river water carrying suspended sediment particles reaches salty water, particle aggregation may be one of the factors responsible for river delta formation.

Particle aggregation - Wikipedia

Particle deposition is the spontaneous attachment of particles to surfaces. The particles in question are normally colloidal particles, while the surfaces involved may be planar, curved, or may represent particles much larger in size than the depositing ones (e.g., sand grains).Deposition processes may be triggered by appropriate hydrodynamic flow conditions and favorable particle-surface ...

Particle deposition - Wikipedia

Field measurements and model predictions show that particle aggregation results in higher relative contributions of fine size fractions to overbank deposits. Aggregation may also provide a mechanism for explaining the poor agreement between theoretical and observed trends in relationships between mean deposit grain size and distance from the main channel.

The significance of particle aggregation in the overbank ...

Presents a unified approach to the measurement, modelling and simulation of particle deposition and aggregation. The book brings together the disciplines of colloid and surface chemistry, hydrodynamics, and experimental and computational methods.

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Particle Deposition and Aggregation: Measurement, Modelling and Simulation describes how particle deposition and aggregation can be measured, modeled, and simulated in a systematic manner. It brings together the necessary disciplines of colloid and surface chemistry, hydrodynamics, experimental methods, and computational methods to present a unified approach to this problem.

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