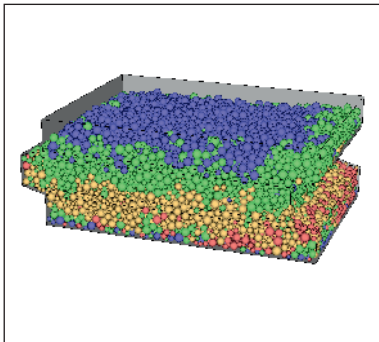


Simulation of technical processes



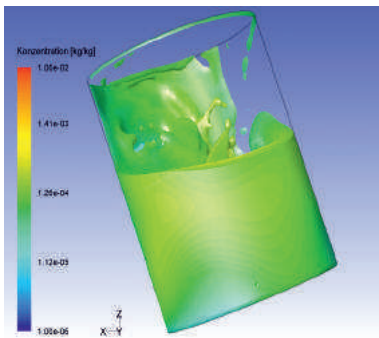
Particel simulation

Modeling granular materials as a system of particles and corresponding contact laws.

Visualization and optimization of:

- Mixing processes
- Fill and flow behavior of granular materials
- Compaction processes

Flow in a colloidal mixer

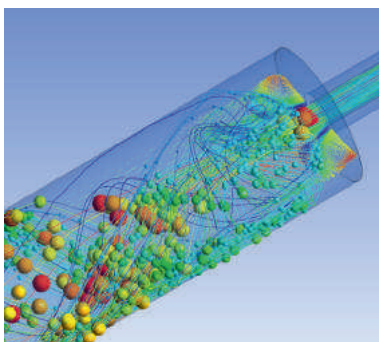


Computational fluid dynamics

Numerical computation of fluid flow:

- Modeling laminar and turbulent flow
- Integration of different material laws
- Development of user defined material laws using lab tests for calibration
- Optimization of machine geometry

Durchmischung von Fluiden



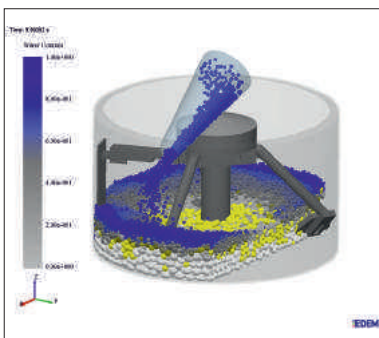
Simulation of disperse multiphase flows

Combination of different simulation methoden in one model.

Analysis and visualization of:

- Transport and buoyancy of solids in fluids
- Sedimentation processes
- Flue gas flow

Computation of flow with particle tracking



Software

- PFC 3D (Fluid option)
- EDEM
- EFD.Lab
- ANSYS Fluent

Process optimization

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