Simulation

Simulation models

Continuum Approach

- Hydrodynamics (CVD, ALD)
- Viskoelasticity (CMP, stress)
- Electrodynamics (Interconnect systems)

Atomistic Approach

- Ballistic Transport (PVD, interconnect)
- Molecular dynamics (PVD, CVD)

Quantum Mechanical Approach

- Tight-Binding
- Density functional theory
- Electronic transport
- Quantum chemistry

Simulation tools

- CFD-ACE+
- Sentaurus Process, T2, Mesa
- Ansys, T2

- T2, Sentaurus Process/Device, SRIM, Tridyn-FZR
- Kalypso, Materials Studio

- In-house software solutions
- DFTB, SIESTA, Materials Studio, Atomistix
- gDFTB, TranSIESTA, Atomistix
- Materials Studio

