Final SCAT meeting and satellite school

Universidad Técnica Federico Santa María

Volume of Fluid and Lattice Gas Cellular Automata for two-phase flow

One of a series of mini-courses taking place 20-24 July 2009

Contents

- Volumetric tracking, piecewise linear interface reconstruction.
- Advanced VOF methods: unsplit, exactly-conserving VOF methods, oct-tree adaptive mesh refinement.
- Recent advances in surface tension with VOF methods: height-function methods.
- Flows with large interface deformation and disruption. Ligament formation, atomization and entrainment. Droplet splashing.
- Multiphase flow in porous media.
- Introduction to lattice gas cellular automata and multiphase lattice Boltzmann.

Lecturers

Professor Stephane Zaleski, Institut Jean le Rond d'Alembert, Paris, France

Duration: 3 hours

This course will be in English.

For more information, visit www.scat-alfa.eu

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