

Abstract Submitted
for the DFD05 Meeting of
The American Physical Society

Numerical method for interaction among fluid, multi-particle and complex structures KENSUKE YOKOI, Math., UCLA — We propose a numerical method for dealing with interactions among fluid, multiple particles and complex structures. This method is based on the level set method, the CIP method and DEM. In the formulation, the structures are represented on a grid by using the level set method. The interactions of particles and structures are calculated by a method based on the discrete element method. The method can treat the interaction among fluid, multi-particle and complex structures robustly.

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Date submitted: 12 Aug 2005

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