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An Analytical Approach of Computational Complexity for the Method of Multifluid Modelling

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Abstract : In this paper we deal building blocks of the computer simulation of the multiphase flows. Whole simulation procedure can be viewed as two super procedures; The implementation of VOF method and the solution of Navier Stoke's Equation. Moreover, a sequential code for a Navier Stoke's solver has been studied.

Keywords : Bi-conjugate gradient stabilized (Bi-CGSTAB), ILUT function, krylov subspace, multifluid flows preconditioner, simple algorithm
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