

عنوان مقاله:

Higher Order Interface Reconstruction in Multi-Material Arbitrary Lagrangian Eulerian (MMALE) Algorithms

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خلاصه مقاله:

In this paper, we focus on the problem of interface reconstruction in a multi-material arbitrary Lagrangian Eulerian (MMALE) algorithm. The main objective of this task is to approximate the interface between the materials within a computational cell. For this purpose the Momentof- Fluid interface reconstructing algorithm is chosen. This algorithm approximates the interface between two materials within a mixed cell with a straight line. The extension of the method for the situations in which more than two materials are in a cell is examined. The numerical experiment on these two algorithms shows the higher accuracy of them in comparison to other Volumeof- Fluid interface reconstruction algorithms.

کلمات کلیدی:

Arbitrary Lagrangian Eulerian, Multi- Material, Interface Tracking, Volume-of-Fluid (VoF), Moment-of-Fluid (MoF), Mixed Cell

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