

# A unified algorithm for moving interfaces and mixing zones in a multi-component compressible fluid model

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We study a unified algorithm for moving interfaces and mixing zones in a multi-component compressible fluid. We propose to use the downwind limited scheme (also called Ultra-Bee limiter in the context of pure advection), in order to avoid any artificial numerical spreading of interfaces or mixing zones. Various numerical simulations show the interest of this approach, for both interfaces and static/dynamic mixing zones.

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