A Front Tracking Algorithm for Liquid Jet Breakup WURIGEN
BO, JAMES GLIMM, XINGTAO LIU — A numerical study of breakup of a high
speed jet is presented using the Front Tracking method in 3D. A robust locally grid
based method is applied to handle the topological change of the surface mesh in
the simulation, the validation of the method is proved mathematically. Numerical
results are presented for 3D simulation of the primary breakup of a liquid jet with
turbulent inflow.

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