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An efficient finite volume method for one-dimensional problems with application to the dynamics of capillary jets

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**Highlights**

- A numerical method to solve problems on the dynamics of capillary jets.
- Equations are written in conservation form and the surface parametrized conveniently.
- Numerical advantages: avoids artificial viscosity and upwinding.
- Algebraic advantages: avoids high order derivatives and new discretization at the tip.

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