

Accepted Manuscript

Numerical simulation of a water droplet splash: effects of density interpolation schemes

Douglas Hector Fontes, Carlos Antonio Ribeiro Duarte,
Francisco José de Souza

PII: S0093-6413(18)30136-8
DOI: [10.1016/j.mechrescom.2018.04.003](https://doi.org/10.1016/j.mechrescom.2018.04.003)
Reference: MRC 3260



To appear in: *Mechanics Research Communications*

Received date: 7 March 2018
Revised date: 23 March 2018
Accepted date: 6 April 2018

Please cite this article as: Douglas Hector Fontes, Carlos Antonio Ribeiro Duarte, Francisco José de Souza, Numerical simulation of a water droplet splash: effects of density interpolation schemes, *Mechanics Research Communications* (2018), doi: [10.1016/j.mechrescom.2018.04.003](https://doi.org/10.1016/j.mechrescom.2018.04.003)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Numerical simulations of water droplet splash were performed
- VoF/CICSAM method were able to capture the main features of the splash
- Different density interpolation schemes were compared
- The density interpolation scheme based on CICSAM terms was the best
- Numerical results fitted well with experimental data

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/7178763>

Download Persian Version:

<https://daneshyari.com/article/7178763>

[Daneshyari.com](https://daneshyari.com)