

# Accepted Manuscript

Development of a moving reference frame-based Gas-Kinetic BGK scheme for viscous flows around arbitrarily moving bodies

Di Zhou, Zhiliang Lu, Tongqing Guo, Ennan Shen

PII: S0021-9991(18)30478-9  
DOI: <https://doi.org/10.1016/j.jcp.2018.07.017>  
Reference: YJCPH 8142

To appear in: *Journal of Computational Physics*

Received date: 13 December 2017  
Revised date: 1 July 2018  
Accepted date: 9 July 2018

Please cite this article in press as: D. Zhou et al., Development of a moving reference frame-based Gas-Kinetic BGK scheme for viscous flows around arbitrarily moving bodies, *J. Comput. Phys.* (2018), <https://doi.org/10.1016/j.jcp.2018.07.017>

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

- A moving reference frame-BGK scheme is developed for flows around moving bodies.
- The source effects are considered by adding an acceleration term to the BGK model.
- The dual time-stepping for implicit BGK scheme is used for efficient simulation.

Download English Version:

<https://daneshyari.com/en/article/6928550>

Download Persian Version:

<https://daneshyari.com/article/6928550>

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