



UvA-DARE (Digital Academic Repository)

Mesoscopic Computational Haemodynamics

Artoli, A.M.M.

Publication date
2003

[Link to publication](#)

Citation for published version (APA):

Artoli, A. M. M. (2003). *Mesoscopic Computational Haemodynamics*. Ponsen en Looijen.

General rights

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: <https://uba.uva.nl/en/contact>, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

Publications

- Artoli AM, Hoekstra AG, Sloot PMA (2002): Accuracy of 2D pulsatile flow in the lattice Boltzmann BGK method, in Sloot PMA; Tan CJK; Dongarra JJ; Hoekstra AG (Editors), Computational Science - ICCS 2002, *Lecture Notes in Computer Science* **2329**: 361-370. Springer Verlag, Berlin, April 2002. ISBN 3-540-43591-3.
- Artoli AM, Hoekstra AG, Sloot PMA (2002): 3D Pulsatile flow with the lattice Boltzmann BGK method, *International Journal of Modern Physics C* **13**: 1119-1134.
- Artoli AM, Hoekstra AG, Sloot PMA (2003): Accelerated Lattice BGK method for unsteady flow simulations through Mach number annealing, Accepted, *International Journal of Modern Physics C*.
- Artoli AM, Hoekstra AG, Sloot PMA (2003): Simulation of a systolic cycle in a realistic artery with the Lattice Boltzmann BGK method, *International Journal of Modern Physics B* **17**: 95-98.
- Hoekstra AG, van't Hoff J, Artoli AM, Sloot PMA (2003): Lattice BGK simulations of unsteady flow in a 2D elastic tube, in Sloot PMA; Abramson D; Bogdanov AV; Dongarra JJ; Zomaya AY; Gorbachev YE (Editors), Computational Science - ICCS 2003, *Lecture Notes in Computer Science* **2657**: 997-1006. Springer Verlag, Berlin, June 2003. ISBN 3-540-40194-6.
- Artoli AM, Kandhai D, Hoefsloot HCJ, Hoekstra AG, Sloot PMA (2003): Lattice Boltzmann, a Robust and Accurate Solver for Interactive Computational Hemodynamics, in Sloot PMA; Abramson D; Bogdanov AV; Dongarra JJ; Zomaya AY; Gorbachev YE (Editors), Computational Science - ICCS 2003, *Lecture Notes in Computer Science* **2657**: 1034-1043. Springer Verlag, Berlin, June 2003. ISBN 3-540-40194-6.
- Artoli AM, Hoekstra AG, Sloot PMA (2003): Mesoscopic simulations of systolic flow in the Human abdominal aorta, Submitted, *Journal of Biomechanics*.
- Artoli AM, Kandhai D, Hoefsloot HCJ, Hoekstra AG, Sloot PMA (2003): Robustness of the Lattice Boltzmann Method, submitted, *Future Generation Computer Systems*.

- Artoli AM, Hoekstra AG, Slood PMA (2003): Simulations of a systolic cycle with lattice Boltzmann method: Accuracy versus performance, submitted, *Computers and Fluids*.
- Artoli AM, Hoekstra AG, Slood PMA (2002): Time dependent flow in a rigid tube using the Lattice Boltzmann Method, in: Boon JP, Coveney PV, Succi S (Editors), International Conference on Discrete Simulation of Fluid Dynamics, in series *Europhysics Conference Abstracts* **25**:3.
- Artoli AM, Kandhai BD, Hoekstra AG, Slood PMA (2000): Accuracy of shear stress calculations in the Lattice Boltzmann Method, in Proceedings of the 9th International Conference on Discrete Simulation of Fluid Dynamics, New Mexico USA, <http://cnls.lanl.gov/Conferences/DiscreteSimulation/agenda>.
- Artoli AM, Kandhai BD, Hoefslood HG, Hoekstra AG, Slood PMA (2001): Shear Stress in Lattice Boltzmann Simulations, in F. Hossfeld and K. Binder (Editors), Europhysics Conference on Computational Physics, Aachen, Germany, 5-8 September 2001, in series *Publication Series of the John von Neumann Institute for Computing* **8**: A127.



