

## DAFTAR PUSTAKA

- Amsden, A., Harlow, F., *A simplified MAC technique for incompressible fluid flow calculations. J. Comput. Phys.*, 6 (1970), p. 322.
- Ashgriz, N., 2011, *Handbook of atomization and sprays: Theory and Applications. Springer*, London.
- Chandra, S. dan Avedisian, C.T., 1991. *On the Collision of a Droplet with a Solid Surface. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences.* 432(1884), pp.13–41.
- Charin, A.H.L.M., Tukovic, Z., Jasak, H., Silva, L.F.L.R., Lage, P.L.C., 2016, *A moving mesh interface tracking method for simulation of liquid-liquid systems. J. Comput. Phys.*, 334 (2017), p. 419–414.
- Clift, R., Grace, J.R., Weber, M.E., 1978, *Bubbles, Drops and Particles.* (Academic Press, San Francisco, 1978), New York.
- Daly, B., 1967, *Numerical study of two fluid Rayleigh–Taylor instability, The Physics of Fluids*, 10 (1967), p. 297.
- Daly, B., 1969, *Numerical study of the effect of surface tension on interface instability, The Physics of Fluids*, 12 (1969), p. 1340.
- Ebrahim, M., Alfonso, O., 2017, *An experimental technique for accelerating a single liquid droplet to high impact velocities against a solid target surface using a propellant gas. International journal of experimental thermal and fluid science* 81 (2017), pp. 202-208.
- Fujimoto, H., Shiotani, Y., Tong, A.Y., Hama, T., Takuda, H., 2007, *Three-dimensional numerical analysis of the deformation behavior of droplets impinging onto a solid substrate, J. Multiphase Flow.*, 33 (2007), p. 317-332.

- Gallouet, T., Herbin, R., Maltese, D., Novotny, A., 2016, *Convergence of the Marker-and-Cell Scheme for the Semi-Stationary Compressible Stokes Problem*. Article in Press.
- Gueyffier, D., Li, J., Nadim, A., Scardovelli, R., Zaleski, S., 1998, *Volume-of-Fluid Interface Tracking with Smoothed Surface Stress Methods for Three-Dimensional Flows*. *Journal of Comp. Phys*, 152 (1999), p.423-456.
- Harlow, F., and Welch, J., 1965, *Numerical calculation of time-dependent viscous incompressible flow of fluid with free surface*, *The Physics of Fluids*, 8 (1965), p. 2182.
- Hirt, C.W., Nichols B.D., 1979, *Volume of Fluid (VOF) Method for the Dynamics of Free Boundaries*. *Journal of Computational Physics*, 39 (1981), p.201-225.
- Hoffmann, K.A., Chiang, S.T., 2000, *Computational Fluid Dynamics, vol.1*. 4<sup>th</sup> ed., Engineering Education System, Kansas.
- Izbassarov, D., Muradoglu, M., 2014, *A Front-tracking method for computational modeling of viscoelastic two-phase flow systems*. *J. of Non-newtonian fluid Mech.*, 223 (2015) p. 122-140.
- Lemos, C.M., 1993, *DFLOW: A Fortran-77 Solver for 2-D Incompressible Fluid Flow*. *Computer and Geosciences*, 3 (1994), Vol.20, p.265-291.
- Li, B.X., Li, C.F., Yang, J.C., Kinoshita, H., 2012, *Study on the Mechanism of Droplet in T-junction Microchannel*. *Chemical Engineering Science* 69 (2012), p.340-351.
- Li, J., Renardy, Y.Y., Renardy, M., 1999, *Numerical Simulation of Breakup of A Viscous Drop in Simple Shear Flow through A Volume-of-Fluid Method*. *Physics of Fluid* 12, 2000, Vol.2.
- Noh, W., Woodward, P., 1976, *SLIC—Simple line interface calculation*, in *Fifth International Conference on Fluid Dynamics, Lecture Notes in Physics*, A. V. Vooren and P. Zandbergen, vol. 59, Springer, 1976, p. 330.

- Peskin, C.S., 1985, *A Random-Walk Interpretation of the Incompressible Navier-Stokes Equations. Pure and Applied Mathematics*, vol. XXXVIII (1985), p. 845-852.
- Quan, S., Lou, J., Schmidt, D.P., 2009, *Modeling merging and breakup in the moving mesh interface tracking method for multiphase flow simulations. J. Comput. Phys.*, 228 (2009), p. 2660-2675.
- Raiskinmaki, P., Koponen, A., Merikoski, J., Timonen, J., 2000, *Spreading dynamics of three-dimensional droplets by the lattice-Boltzmann method, Comput. Materials Science*, 18 (2000), p. 7-12.
- Richtmyer, R.D., Morton, K.W., *Difference Methods for Initial Value Problems* (Interscience, New York, 1967).
- Shao, C., Luo, K., Fan, J., 2016, *Detailed Numerical Simulation of Unsteady Drag Coefficient of Deformable Droplet. J. Chemical Engineering.*, vol. 308 (2017), p. 619-631.
- Soh, G.Y., Yeoh, G.H., Timchenko, V., 2016, *Improved VOF method for Predictions of Velocity Fields and Droplet Lengths in MicroChannels. Flow Measurement and Instrumentation*, 51 (2016), p.105-115.
- Tang, C., Qin, M., Weng, X., Zhang, X., Zhang, P., Li, J., Huang, Z., 2017, *Dynamics of droplet impact on solid surface with different roughness, J. Multiphase Flow.*, vol. 96 (2017), p. 56-96.
- Tryggvason, G., 2012, *A Front-tracking/Finite-Volume Navier-Stokes Solver for Direct Numerical Simulations of Multiphase Flows.*
- Tryggvason, G., Bunner, B., Esmaeeli, A., Juric, D., Al-Rawahi, N., Tauber, W., Han, J., Nas, S., Jan, Y., 2001, *A front tracking method for the computations of multiphase flow, J. Comput. Phys.*, 169 (2001), p. 708.
- Unverdi, S., Tryggvason, G., *A front-tracking method for viscous, incompressible mult fluids flow, J. Comput. Phys.*, 100 (1992), pp. 25- 37.

- Versteeg, H.K., Malalasekara, W., 2007, *An Introduction to Computational Fluid Dynamics, The Finite Volume Method*, 2<sup>nd</sup> ed., Prentice Hall, London.
- Wang, C., Wang, X., Zhang, L., 2013, *Connectivity-Free Front Tracking Method for Multiphase Flows with Free Surface*. *J. Comput. Phys*, 241 (2013), p.58-75.
- Werner, S.R.L., Jones, J.R., Peterson, A.H.J., Archer, R.H., Pearce, D.L., 2007, *Droplet impact and spreading: Droplet formulation effects*, *Chemical Eng. Science*, vol. 62 (2007), p. 2336-2345.
- Wu, J., Huang, J.J., Yan, W.W., 2015, *Lattice Boltzmann Investigation of Droplets Impact Behaviors onto a Solid Substrate, Physicochemical and Engineering Aspect*.
- Zhang, D., Papadikis, K., Gu, S., 2014, *Application of a high density ratio lattice-Boltzmann model for the droplet impingement on flat and spherical surfaces*, *J. Thermal Sciences*, vol. 84 (2014), p. 75-85.