

DAFTAR PUSTAKA

- Anderson, J. D. (1995). *Computational Fluid Dynamics: The basics with applications*. New York: McGraw-Hill, Inc.
- ANSYS. (2013). *CFX-Meshing User's Guide*. USA: ANSYS, Inc.
- ANSYS. (2013). *CFX-Pre User's Guide*. USA: ANSYS, Inc.
- ANSYS. (2009). *CFX-Solver Theory Guide*. USA: ANSYS, Inc.
- ANSYS. (2013). *CFX-Solver Modeling Guide*. USA: ANSYS, Inc.
- Besagni, G., Guedon, G.R., Inzoli, F. (2018). Computational fluid-dynamic modeling of the mono-dispersed homogenous flow regime in bubble columns. *Nuclear Engineering and Design*. Vol. 331, 222-237.
- Colombo, M., Fairweather, M. (2015). Multiphase turbulence in bubbly flows: RANS simulations. *International Journal of Multiphase Flow*. Vol. 77, 222-243.
- Colombo, M., Fairweather, M. (2019). Influence of multiphase turbulence modelling on interfacial momentum transfer in two-fluid Eulerian Eulerian CFD models of bubbly flows. *Chemical Engineering Science*. Vol. 195, 968-984.
- Frank, T., Zwart, P.J., Krepper, E., Prasser, H.M., Lucas, D. (2008). Validation of CFD models for mono- and polydisperse air-water two-phase flows in pipes. *Nuclear Engineering and Design*. Vol. 238 (3), 647–659.
- Jin, D., Xiong, J.B., Cheng, X. (2019). Investigation on interphase force modeling

for vertical and inclined upward adiabatic bubbly flow. *Nuclear Engineering and Design*. Vol. 350, 43–57.

Liao, Y., Ma, T., Liu, L., Ziegenhein, T., Krepper, E., & Lucas, D. (2018).

Eulerian modelling of turbulent bubbly flow based on a baseline closure concept. *Nuclear Engineering and Design*. Vol. 337, 450–459.

Liao, Y., Rzehak, R., Lucas, D., & Krepper, E. (2015). Baseline closure model for

dispersed bubbly flow: Bubble coalescence and breakup. *Chemical Engineering Science*. Vol. 122, 336–349.

Masood, R.M.A., Delgado, A. (2014). Numerical investigation of the interphase

forces and turbulence closure in 3D square bubble columns. *Chem. Eng. Sci.* Vol. 108, 154–168.

Neumann-Kipping, M., Bieberle, A., Hampel, U. (2020). Investigations on bubbly

two-phase flow in a constricted vertical pipe. *International Journal of Multiphase Flow*. Vol. 130. No. 103340.

Parekh, J., Rzehak, R. (2018). Euler-Euler multiphase CFD-simulation with full

Reynolds stress model and anisotropic bubble-induced turbulence.

International Journal of Multiphase Flow. Vol. 99, 231–245.

Rzehak, R., Krepper, E., Lifante, C. (2012). Comparative study of wall-force

models for the simulation of bubbly flows. *Nuclear Engineering and Design*. Vol. 253, 41–49.

Rzehak, R., Krepper, E. (2013). Bubble-induced turbulence: Comparison of CFD

models. *Nuclear Engineering and Design*. Vol. 258, 57-65.

Rzehak, R., Ziegenhein, T., Kriebitzsch, S., Krepper, E., Lucas, D. (2017) Unified modeling of bubbly flows in pipes, bubble columns, and airlift columns.

Chemical Engineering Science. Vol. 157, 147–158.

Tas-Koehler, S., Liao, Y., Hampel, U. (2021). A critical analysis of drag force modelling for dispersed gas-liquid flow in a pipe with an obstacle.

Chemical Engineering Science. Vol. 246. No.117007.

Tas-Koehler, S., Neumann-Kipping, M., Liao, Y., Krepper, E., Hampel, U.

(2021). CFD simulation of bubbly flow around an obstacle in a vertical pipe with a focus on breakup and coalescence modelling. *International Journal of Multiphase Flow*. Vol. 135. No. 103528.

Versteeg, H. K., Malalasekera, W. (1995). *An Introduction to Computational Fluid Dynamics, 2nd ed.* Glasgow: Pearson Education Limited.

Wang, Q.G., Yao, W. (2016). Computation and validation of the interphase force models for bubbly flow. *Int. Heat Mass Transf.* Vol. 98, 799–813.

Yamoah, S., Martinez-Cuenca, R., Monros, G., Chiva, S., Macian-Juan, R.

(2015). Numerical investigation of models for drag, lift, wall lubrication and turbulent dispersion forces for the simulation of gas-liquid two-phase flow. *Chem. Eng. Res. Des.* Vol. 98, 17–35.