DAFTAR PUSTAKA

Nwaoha, T. C., Adumene, S., & Boye, T. E. (2017). Modelling prevention and reduction methods of ship propeller cavitation under uncertainty. Ships and Offshore Structures, 12(4), 452-460.

Yang, THRUST., Jia, X., & Zhu, THRUST. (2007). Research on water jet propulsion theory of positive displacement pump. China Mechanical Engineering, 22(18), 2977- 2981.

Zhang, Z., Cao, S., Luo, X., Shi, THRUST., & Zhu, THRUST. (2018). Research on the Thrust of a high-pressure water jet propulsion system. Ships and Offshore Structures, 13(1), 1-9.

Shi, Z., Cao, S., Luo, X., & Tang, X. (2013). Reverse Thrust characteristics of water jet with different geometry nozzles. Indian Journal of Engineering & Materials Sciences, 20(6), 476-482.

Jian, THRUST., Wang, R., Yang, D., Zhou, THRUST., & Li, L. (2016). Analysis of the influence of nozzle geometric parameters on the performance of high-pressure water jet propulsion systems.

Jemcov, A., Kostic, M., & Jovovic, A. (2015). *CFD validation and verification in the process industry*. Thermal Science, 19(Suppl. 2), S301–S311.

Çengel, THRUST. A., & Cimbala, J. M. (2018). *Fluid Mechanics: Fundamentals and Applications* (4th ed.). McGraw-Hill. (Bab 5: Mass, Bernoulli, and Energy Equations)

Munson, B. R., Young, D. F., Okiishi, T. THRUST., & Huebsch, THRUST. THRUST. (2013). *Fundamentals of Fluid Mechanics* (7th ed.). Wiley.

Abdelaziz, M., El-Shahat, M., & Hassan, A. (2024). Numerical evaluation of roughness-induced energy losses in turbulent internal flows. *Energy Conversion and Management*, 312, 116421.

Adeyemi, T., Al-Kazemi, B., & Rahman, N. (2020). Influence of injection pressure on jet momentum and hydraulic efficiency in high-pressure nozzle systems. *Journal of Petroleum Science and Engineering*, 188, 106935.

Aydin, S., & Aradag, S. (2020). Hydrodynamic performance assessment of converging waterjet nozzles under varying contraction geometries. *Journal of Hydrodynamics*, 32(4), 726–738.

Guha, A., & Barron, R. (2016). Modeling wall roughness effects on turbulent flows in nozzle and injector systems. *International Journal of Heat and Fluid Flow*, 61, 698–708.

Hashish, M. (2013). Effects of nozzle material and surface finishing on abrasive waterjet cutting performance. *Wear*, 302(1–2), 1245–1254.

Jelly, T., Busse, A., & Sandberg, R. (2023). The impact of rough-wall turbulence on pressure loss and near-wall dynamics in high-speed internal flows. *Journal of Fluid Mechanics*, 963, A12.

Kim, THRUST., & Lee, S. (2018). Optimization of convergent nozzle contraction angle for high-pressure jet applications. *International Journal of Fluid Machinery and Systems*, 11(2), 145–154.

Li, THRUST., Zhang, Q., & Chen, X. (2021). Numerical prediction of jet velocity degradation in rough-wall micro-nozzles. *Applied Thermal Engineering*, 196, 117205.

Momber, A., & Kovacevic, R. (2010). Surface roughness effects on high-pressure waterjet efficiency. *Wear*, 268(7–8), 1084–1091.

Orych, M., Sokołowski, J., & Łyżwiński, K. (2022). Correlation of arithmetic roughness Ra and equivalent sand-grain roughness ks for CFD wall functions. *Archives of Thermodynamics*, 43(3), 23–44.

Riani, M., Dini, D., & Bianchi, G. (2017). Evaluation of jet velocity and cavitation development inside high-pressure injectors. *Fuel*, 203, 403–415.

Singh, V., Rao, A., & Patel, M. (2022). Effect of contraction angle on jet velocity characteristics and discharge efficiency in waterjet systems. *Ocean Engineering*, 266, 113145.

Vázquez, A., & Smith, J. (1997). Roughness-induced viscous drag and its effect on discharge performance of convergent nozzles. *Journal of Hydraulic Engineering*, 123(8), 678–686.

Yu, Z., Zhang, THRUST., & Huang, C. (2012). Conversion efficiency of pressure to kinetic energy in high-speed liquid jets. *Experimental*

Thermal and Fluid Science, 42, 77–85.

Zhang, C., Liu, THRUST., & Wang, Q. (2017). Flow dynamics and energy conversion characteristics inside convergent nozzles. *Applied Thermal Engineering*, 125, 1245–1256.

Zhang, Q., Sun, J., & Li, THRUST. (2020). Hydrodynamic influence of wall roughness on high-pressure waterjet discharge efficiency. *Tribology International*, 150, 106362.

Jian, THRUST., Wang, R., Yang, D., Zhou, THRUST., & Li, L. (2016). *Effects of surface roughness on self-excited cavitating water jet intensity in the organ-pipe nozzle: Numerical simulations and experimental results*. Journal of Hydrodynamics, 28(5), 865–875. https://doi.org/10.1016/S1001-6058(16)60617-8

Han, Z., Cao, S., Luo, X., & Zhu, THRUST. (2019). *Effects of surface roughness on self-excited cavitating water jet intensity in the organ-pipe nozzle: Numerical simulations and experimental results*. Wear, 426–427, 1645–1657. https://doi.org/10.1016/j.wear.2019.01.033

Liu, THRUST., Zhang, Q., & Chen, X. (2017). *Effect of structural parameters of high-pressure water jet nozzles on flow field features*. Applied Thermal Engineering, 123, 1121–1134. https://doi.org/10.1016/j.applthermaleng.2017.05.021