

DAFTAR PUSTAKA

- Abdurrahman, R. and Ilhan, M.R. (2024) ‘Analisis Efisiensi Fire Pump 717-P-3 Emergency Water Pump Jetty 1 (Marine) Pt. Pertamina (Persero) Ru Ii Production Sungai Pakning’, *Jurnal Surya Teknika*, 11(1), pp. 75–80. Available at: <https://doi.org/10.37859/jst.v11i1.6998>.
- Abo Elyamin, G.R.H. *et al.* (2019) ‘Effect of impeller blades number on the performance of a centrifugal pump’, *Alexandria Engineering Journal*, 58(1), pp. 39–48. Available at: <https://doi.org/10.1016/j.aej.2019.02.004>.
- Al-obaidi, K.S.A. and Al-najjar, S.Q. (2020) ‘Evaluation of The Performance of Centrifugal Pump Type (Rovatti T3- P . T . O .)’, (September). Available at: <https://doi.org/10.13140/RG.2.2.22595.63527>.
- Ansys, I. (2023) *What is Turbulent Flow?*, Ansys, Inc. Available at: <https://www.ansys.com/simulation-topics/what-is-turbulent-flow%0AAbstrak>:
- Campos Rodriguez, C.E. *et al.* (2018) ‘Effects of the Volute Casing Design on the Characteristics of Centrifugal Pump’, (January). Available at: <https://doi.org/10.26678/abcm.cobem2017.cob17-2680>.
- Cantona, P. *et al.* (2019) ‘Analisis Head loss dan Kavitasi dari Rangkaian Pompa Sentrifugal Ebara di PT. PBI’, *Prosiding Seminar Nasional Teknik Mesin Politeknik Negeri Jakarta*, pp. 87–93. Available at: <http://semnas.mesin.pnj.ac.id>.
- Church, A.H. (1972) *Centrifugal Pumps and Blowers*. New york: Robert E. Krieger Publishing Company.
- Deng, Q. *et al.* (2021) ‘Effects of Impeller Trimming on Performance in a Double-suction Centrifugal Pump’, *IOP Conference Series: Earth and Environmental Science*, 627(1). Available at: <https://doi.org/10.1088/1755-1315/627/1/012014>.
- Farid, A. (2015) ‘Experimental and Computational Study of Semi-open Centrifugal Pump’, 62(December 2015), pp. 1897–1904. Available at: <https://doi.org/10.13140/RG.2.1.5190.3766>.

- Fatchurrohman, N. and Chia, S.T. (2017) 'Performance of hybrid nano-micro reinforced mg metal matrix composites brake calliper: Simulation approach', *IOP Conference Series: Materials Science and Engineering*, 257(1). Available at: <https://doi.org/10.1088/1757-899X/257/1/012060>.
- Gurupranesh, P., Radha, R.C. and Karthikeyan, N. (2010) 'CFD Analysis of centrifugal pump impeller for performance enhancement', *IOSR Journal of Mechanical and Civil Engineering*, pp. 33–41. Available at: www.iosrjournals.org.
- Harimbawa, M. (2016) 'Persistensi Bahan Bakar Fosil: Analisis Path Dependence dalam Bauran Konsumsi-Energi Indonesia Periode 1980-2015', *Jurnal Kebijakan Ekonomi*, 11(2), pp. 143–160.
- Houlin, L.I.U. *et al.* (2010) 'Effects of Blade Number on Characteristics of Centrifugal Pumps', 23. Available at: <https://doi.org/10.3901/CJME.2010>.
- Huang, R. *et al.* (2020) 'Energy performance prediction of the centrifugal pumps by using a hybrid neural network', *Energy*, 213, p. 119005. Available at: <https://doi.org/10.1016/j.energy.2020.119005>.
- International Energy Agency (2021) 'Net Zero by 2050: A Roadmap for the Global Energy Sector - International Energy Agency', *International Energy Agency*, p. 224.
- Jerin Winne, S. and Chandrasekaran, M. (2015) 'Optimization of nozzle: Convergence using ansys with RSM, MOGA', *ARPN Journal of Engineering and Applied Sciences*, 10(13), pp. 5486–5489.
- Kim, S. *et al.* (2020) 'Design optimization for mixed-flow pump impeller by improved suction performance and efficiency with variables of specific speeds', *Journal of Mechanical Science and Technology*, 34(6), pp. 2377–2389. Available at: <https://doi.org/10.1007/s12206-020-0515-7>.
- KSB (2005) *Selecting Centrifugal Pumps*.
- Kurniawan, Y. and Kusnandar (2018) 'Uji Karakteristik Pompa Sentrifugal Pada Cooling Hydronic System Menggunakan Refrijeran Ramah Lingkungan', *Jurnal Teknologi Terapan*, 4(1), pp. 63–71.
- Matlakala, M.E. and von Kallon, D.V. (2020) 'Optimization of the Pumping

- Capacity of Centrifugal Pumps Based on System Analysis’, *12th South African Conference on Computational and Applied Mechanics, SACAM 2020*, 00024. Available at: <https://doi.org/10.1051/mateconf/202134700024>.
- Mohanrajhu, N. and Raj, P. (2019) ‘Design and Analysis of Industrial Impeller Using Optimization Technique’, *International Research Journal of Engineering and Technology*, 3082, pp. 3082–3088. Available at: www.irjet.net.
- Moshnoriz, M. (2024) ‘Machinery & Energetics Efficiency of electric drive of a centrifugal pump unit’, 15(4), pp. 94–105. Available at: <https://doi.org/10.31548/machinery/4.2024.94>.
- Naufal, M. *et al.* (2023) ‘Simulasi Kinerja Pompa Rumah Tangga Menggunakan Metode Numerik’, *Jurnal Teknik Mesin S-1*, 11(3), pp. 338–343.
- Neelambika (2014) ‘Cfd Analysis of Mixed Flow Impeller’, *International Journal of Research in Engineering and Technology*, 03(15), pp. 601–607. Available at: <https://doi.org/10.15623/ijret.2014.0315112>.
- Pavlenko, I. *et al.* (2023) ‘Effect of Impeller Trimming on the Energy Efficiency of the Counter-Rotating Pumping Stage’, *Applied Sciences (Switzerland)*, 13(2). Available at: <https://doi.org/10.3390/app13020761>.
- Qazizada, M.E., Sviatskii, V. and Bozek, P. (2016) ‘Analysis performance characteristics of centrifugal pumps’, *MM Science Journal*, 2016(OCTOBER), pp. 1151–1159. Available at: https://doi.org/10.17973/MMSJ.2016_10_201691.
- Reddy, T.R., Priyadarsini, C.I. and Navaneetha, R. (2021) ‘Design and analysis of impeller using corrosion resistant materials’, *AIP Conference Proceedings*, 2317(February). Available at: <https://doi.org/10.1063/5.0036476>.
- Said, J. and Dahlan, D. (2023) ‘Analisis Kinerja Pompa Sentrifugal dengan Perlakuan Resurfacing’, *Teknobiz : Jurnal Ilmiah Program Studi Magister Teknik Mesin*, 13(3), pp. 170–179. Available at: <https://doi.org/10.35814/teknobiz.v13i3.5753>.
- Šavar, M., Kozmar, H. and Sutlović, I. (2009) ‘Improving centrifugal pump

- efficiency by impeller trimming’, *Desalination*, 249(2), pp. 654–659. Available at: <https://doi.org/10.1016/j.desal.2008.11.018>.
- Siregar, M.A. and Damanik, W.S. (2020) ‘Pengaruh Variasi Sudut Keluar Impeler Terhadap Performance Pompa Sentrifugal’, *Jurnal Rekayasa Material, Manufaktur dan Energi*, 3(2), pp. 166–174. Available at: <https://doi.org/10.30596/rmme.v3i2.5278>.
- Stikland, M. (2000) ‘An Experimental Study On The Unsteady Pressure Distribution Around The Impeller Outlet Of A Centrifugal Pump’, 2014(June), pp. 135–163.
- Susilo, S.H. and Setiawan, A. (2021) ‘Analysis of the number and angle of the impeller blade to the performance of centrifugal pump’, *EUREKA, Physics and Engineering*, 2021(5), pp. 62–68. Available at: <https://doi.org/10.21303/2461-4262.2021.002001>.
- Sutardi, S. and Adliansyah, R. (2021) ‘Effect of Impeller Trimming on Centrifugal Pump’, *Jurnal Rekayasa Mesin*, 12(3), pp. 663–675. Available at: <https://doi.org/10.21776/ub.jrm.2021.012.03.16>.
- Tan, L. *et al.* (2012) ‘Direct and inverse iterative design method for centrifugal pump impellers’, *Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy*, 226(6), pp. 764–775. Available at: <https://doi.org/10.1177/0957650912451411>.
- Versteeg, H.K. and Malalasekera, W. (2007) *An Introduction to Computational Fluid Dynamics, Open Journal of Fluid Dynamics*. Logan Scientific & Technical. Available at: <https://doi.org/10.4236/ojfd.2020.101005>.
- Waluyo, J., Mahardhika, K. and Waluyo, R. (2021) ‘Analisis Kinerja Pompa Sentrifugal pada Variasi Trim Diameter Menggunakan Simulasi Numerik’, *Jurnal Rekayasa Mesin*, 12(2), pp. 467–474. Available at: <https://doi.org/10.21776/ub.jrm.2021.012.02.23>.
- You, L. and Peng, C. (2023) ‘Effect of variable speed conditions on the internal flow characteristics of a multiphase pump’, *Chemical Engineering Research and Design*, 199, pp. 348–362. Available at: <https://doi.org/10.1016/j.cherd.2023.09.028>.

Zhang, Q. *et al.* (2014) ‘Analysis of effects of impeller inlet width on the performance of centrifugal pump’, 6(5), pp. 2078–2081.