

DAFTAR PUSTAKA

- Aldeen Saad Obayes, S. dan Abdul Khaliq Qasim, M. (2017) “Effect of Flow Parameters on Pelton Turbine Performance by Using Different Nozzles,” *International Journal of Modeling and Optimization*, 7(3), hal. 128–133. Tersedia pada: <https://doi.org/10.7763/ijmo.2017.v7.571>.
- Asrori, A., Adikusuma, T. dan Yudiyanto, E. (2022) “Rancang Bangun Turbin Pelton Kapasitas 270 W Sebagai Alat Peraga Sistem Pembangkit Listrik Pico Hydro,” *Briliant: Jurnal Riset dan Konseptual*, 7(2), hal. 522. Tersedia pada: <https://doi.org/10.28926/briliant.v7i2.973>.
- Avinash, B. (2022) “Advanced applications of synchronous motors.” Tersedia pada: <https://doi.org/10.15651/GJEEE.22.1.001.DESCRPTION>.
- Cai, J. *et al.* (2024) “Design of Pelton Turbine Test Stand in Plateau Environment,” *Journal of Physics: Conference Series*, 2752(1). Tersedia pada: <https://doi.org/10.1088/1742-6596/2752/1/012023>.
- Chapman, S.J. (2001) *Electric Machinery and Power System Fundamentals*. McGraw-Hill.
- Cobb, B.R. (2011) “Experimental Study of Impulse Turbines and Permanent Magnet Alternators for Pico-hydropower Generation,” *Thesis*, hal. 143.
- Dietzel, F. dan Sriyono, D. (1988) *Turbin, pompa dan kompresor*. Penerbit Erlangga, Jakarta.
- Effendi, Y., Rosyidin, A. dan Maulana, I. (2020) “Dan sistem perpipaan pada turbin pelton skala laboratorium,” *Jurnal Teknik Mesin Universitas Muhammadiyah Tangerang, Vol.*, 4(2), hal. 1–6.
- Egusquiza, M. *et al.* (2018) “Advanced condition monitoring of Pelton turbines,” *Measurement: Journal of the International Measurement Confederation*, 119(January), hal. 46–55. Tersedia pada: <https://doi.org/10.1016/j.measurement.2018.01.030>.
- Eisenring, M. (1991) *Micro Pelton Turbine*. SKAT, Swiss Center for Appropriate Technology, Switzerland.
- Elgammi, M. dan Hamad, A.A. (2022) “A feasibility study of operating a low static pressure head micro pelton turbine based on water hammer phenomenon,” *Renewable Energy*, 195, hal. 1–16. Tersedia pada: <https://doi.org/10.1016/j.renene.2022.05.131>.
- Fahrudin, A. dan Mulyadi (2018) “Rancang Bangun Alat Uji Head Losses Dengan Variasi Debit Dan Jarak Elbow 900 Untuk Sistem Perpipaan Yang Efisien,” *Turbo : Jurnal Program Studi Teknik Mesin*, 7(1), hal. 32–35. Tersedia pada: <https://doi.org/10.24127/trb.v7i1.680>.
- Farge, T.Z., Owaid, A.J. dan Qasim, M.A. (2017) “The Effect of Speed Smart

- Control System SSCS on the Performance of Hydropower System,” *Engineering and Technology Journal*, 35(6), hal. 602–608. Tersedia pada: <https://doi.org/10.30684/etj.35.6a.7>.
- Handayani, S.U. (2014) *Buku Ajar Turbin*. Penerbit UPT UNDIP Press, Semarang.
- Hasanzadeh, N. *et al.* (2021) “Investigation of in-pipe drag-based turbine for distributed hydropower harvesting: Modeling and optimization,” *Journal of Cleaner Production*, 298. Tersedia pada: <https://doi.org/10.1016/j.jclepro.2021.126710>.
- Helu, M. dan Hedberg, T. (2015) “Enabling Smart Manufacturing Research and Development using a Product Lifecycle Test Bed,” *Procedia Manufacturing*, 1(Wolf 2009), hal. 86–97. Tersedia pada: <https://doi.org/10.1016/j.promfg.2015.09.066>.
- Ji-qing, L., Myat, M. dan Saw, M. (2017) “Fatigue Analysis of Simple and Advanced Hoop Pelton Turbine Buckets,” *American Scientific Research Journal for Engineering, Technology, and Sciences*, (April), hal. 371–378.
- Ji, Y. *et al.* (2023) “A Review of the Efficiency Improvement of Hydraulic Turbines in Energy Recovery,” *Processes*, 11(6). Tersedia pada: <https://doi.org/10.3390/pr11061815>.
- Jung, I.H. *et al.* (2019) “Influence of spear needle eccentricity on jet quality in micro Pelton turbine for power generation,” *Energy*, 175, hal. 58–65. Tersedia pada: <https://doi.org/10.1016/j.energy.2019.03.077>.
- Kholifah, N. *et al.* (2018) “Performance of Pelton Turbine for Hydroelectric Generation in Varying Design Parameters,” *IOP Conference Series: Materials Science and Engineering*, 288(1). Tersedia pada: <https://doi.org/10.1088/1757-899X/288/1/012108>.
- Khurmi, R.S. dan Gupta, J.K. (2005) *A textbook of machine design*. New Delhi, India : Eurasia Publication House.
- Mafruddin dan Irawan, D. (2020) *Turbin Impuls*. Penerbit Laduny.
- Mafruddin, M. *et al.* (2020) “Pengaruh jumlah sudu dan diameter nozel terhadap kinerja turbin pelton,” *Turbo : Jurnal Program Studi Teknik Mesin*, 8(2), hal. 214–218. Tersedia pada: <https://doi.org/10.24127/trb.v8i2.1076>.
- Mahardika, S. *et al.* (2024) “Analysis of the Effect of Additional Number of 24, 26 And 28 Blade of Pelton Turbine from PLA to Turbine Performance,” *Journal of Mechanical Engineering Manufactures Materials and Energy*, 8(1), hal. 1–10. Tersedia pada: <https://doi.org/10.31289/jmemme.v8i1.9469>.
- Miyani, R.D. (2024) “Design of a Pelton turbine for extremely small water jet diameters (approx. 1 mm) and extremely high nozzle exit velocities (nearly 700 m/s).” Ingolstadt: Technische Hochschule Ingolstadt, hal. 82. Tersedia pada: <http://nbn-resolving.de/urn:nbn:de:bvb:573-45583>.
- Montagut, M.E. (2019) “Study of the dynamic behavior of Pelton turbines,” (May),

hal. 177.

- Pietersz, R., Soekono, R., & Wahyudi, S. (2013) “Pengaruh Jumlah Sudu terhadap Kinerja Turbin Kinetik Roda Tunggal,” *urnal Rekayasa Mesin Vol.4, No.3 Tahun 2013: 220-226*, 4(3), hal. 220–226.
- Pramudya, L., Kumara, I.N.S. dan Divayana, Y. (2024) “Peranan Kalibrasi Pada Alat Ukur : Literature Review,” *Majalah Ilmiah Teknologi Elektro*, 23(1), hal. 37. Tersedia pada: <https://doi.org/10.24843/mite.2024.v23i01.p05>.
- Pratama, Y.A. (2020) “Desain Pembangkit Listrik Tenaga Air Waduk Tukul Pacitan Energi Untuk Negeri.”
- Ptak, T. *et al.* (2022) “Critically evaluating the purported global ‘boom’ in small hydropower development through spatial and temporal analysis,” *Renewable and Sustainable Energy Reviews*, 163(July 2021). Tersedia pada: <https://doi.org/10.1016/j.rser.2022.112490>.
- Rafae Alomar, O. *et al.* (2022) “Performance analysis of Pelton turbine under different operating conditions: An experimental study,” *Ain Shams Engineering Journal*, 13(4), hal. 101684. Tersedia pada: <https://doi.org/10.1016/j.asej.2021.101684>.
- Rai, A.K. dan Kumar, A. (2019) “Determination of the particle load based on detailed suspended sediment measurements at a hydropower plant,” *International Journal of Sediment Research*, 34(5), hal. 409–421. Tersedia pada: <https://doi.org/10.1016/j.ijsrc.2019.04.001>.
- Rosmiati, Y. *et al.* (2017) “Pengaruh Variasi Diameter Nosel Terhadap,” *Jurnal Teknik Mesin Univ. Muhammadiyah Metro*, 6(1), hal. 1–10.
- Setyawan, E.Y. *et al.* (2024) “Optimizing Pelton turbine performance: unveiling the power of three nozzles for maximum efficiency and sustainable hydropower generation,” *Journal of Measurements in Engineering*, hal. 469–484. Tersedia pada: <https://doi.org/10.21595/jme.2024.23966>.
- Silowash, B. (2009) *Piping Systems Manual*. McGraw Hill Professional.
- Simbolon, J., Junaidi, J. dan Kurniawan, F.A. (2020) “Optimasi Kinerja Turbin Pelton Dengan Menggunakan 2 Nozzle Dan Kemiringan Bucket -8° Dan 8°,” *JiTEKH*, 8(1), hal. 22–26. Tersedia pada: <https://doi.org/10.35447/jitekh.v8i1.303>.
- Soplanit, G.D., Maluegha, B.L. dan Ulaan, T.V.Y. (2021) “Uji Model Turbin Jenis Pelton Untuk Menentukan Daya Head Dan Kapasitas Prototipe Turbin Pelton Pada Desa Berair Terjun ...,” *Jurnal Tekno Mesin*, 2, hal. 1–9.
- Sularso dan Tahara, H. (1983) “Pompa dan Kompresor: Pemilihan, Pemakaian dan Pemeliharaan,” *Journal of Chemical Information and Modeling*, 53(9), hal. 1689–1699.
- Suyesh, B. *et al.* (2019) “Novel trends in modelling techniques of Pelton Turbine bucket for increased renewable energy production,” *Renewable and Sustainable Energy Reviews*, 112(August 2018), hal. 87–101. Tersedia

pada: <https://doi.org/10.1016/j.rser.2019.05.045>.

- Umurani, K., Siregar, A.M. dan Al-Amin, S. (2020) “Pengaruh Jumlah Sudu Prototype Pembangkit Listrik Tenaga Mikrohidro Tipe Whirlpool Terhadap Kinerja,” *Jurnal Rekayasa Material, Manufaktur dan Energi*, 3(2), hal. 103–111. Tersedia pada: <https://doi.org/10.30596/rmme.v3i2.5272>.
- Wisnaningsih, W. dan Tarmizi, A. (2021) “Daya Optimal Pembangkit Listrik Tenaga Mikro Hidro Terhadap Studi Kelayakan dan Perancangan Turbin pada Proyek Mikrohidro,” *Teknika Sains: Jurnal Ilmu Teknik*, 6(2), hal. 58–65. Tersedia pada: <https://doi.org/10.24967/teksis.v6i2.1409>.
- Xiao, Y. *et al.* (2024) “The interaction between bucket number and performance of a Pelton turbine,” *Energy*, 287(February 2023), hal. 129646. Tersedia pada: <https://doi.org/10.1016/j.energy.2023.129646>.
- Yah, N.F., Oumer, A.N. dan Idris, M.S. (2017) “Small scale hydro-power as a source of renewable energy in Malaysia: A review,” *Renewable and Sustainable Energy Reviews*, 72(May 2016), hal. 228–239. Tersedia pada: <https://doi.org/10.1016/j.rser.2017.01.068>.
- Zhang, Z. (2016) *Pelton Turbines*. Springer International Publishing.
- Zhou, X. *et al.* (2024) “Design and research of plateau Pelton turbine model test bench.”