



DAFTAR PUSTAKA

- Alaskari, M., Abdullah, O. and Majeed, M. H. (2019) ‘Analysis of Wind Turbine Using QBlade Software’, *IOP Conference Series: Materials Science and Engineering*, 518(3). doi: 10.1088/1757-899X/518/3/032020.
- Amin, I., Harun, N. and Suyuti, A. (2017) ‘STUDI POTENSI ENERGI TERBARUKAN DI KAWASAN TIMUR INDONESIA BERBASIS ANALISIS RETScreen INTERNATIONAL’, *Jurnal Insypro (Information System and Processing)*, 2(2), pp. 1–14. doi: 10.24252/insypro.v2i2.4066.
- Anderson, J. D. and Hunter, L. P. (1987) *Introduction to Flight, Physics Today*. doi: 10.1063/1.2820235.
- ANSYS (2021) ‘Manual Ansys User Guide’.
- Arfah, M. A. (2024) *ANALISIS KARAKTERISTIK DAN PERFORMA TIPE PROFIL PROPELLER HORIZONTAL AXIS WIND TURBINE UNTUK KONDISI KECEPATAN ANGIN RENDAH DI DAERAH 3T*. Gadjah Mada University.
- Azhar, F. A. and Bramantya, M. A. (2021) ‘Studi Eksperimen Pengaruh Sudut Pitch terhadap Karakteristik Performa pada Turbin Angin Counter-Rotating’, *Journal of Mechanical Design and Testing*, 3(1), p. 12. doi: 10.22146/jmdt.55620.
- Burton, T. et al. (2001) *Wind Energy Handbook*. West Sussex, England: John Wiley & Sons, Ltd.
- Cao, H. (2011) ‘Aerodynamics Analysis of Small Horizontal Axis Wind Turbine Blades by Using 2D and 3D CFD Modelling’, (May), p. 82. Available at: http://clok.uclan.ac.uk/2399/1/CaoH_final_thesis.pdf.
- Cengel, Y. A. and Cimbala, J. M. (2005) *Fluid Mechanics (Fundamentals and Applications)*. 1st ed. New York: The McGraw-Hill.



- Eftekhari, H., Mahdi Al-Obaidi, A. S. and Eftekhari, S. (2022) ‘Aerodynamic Performance of Vertical and Horizontal Axis Wind Turbines: A Comparison Review’, *Indonesian Journal of Science and Technology*, 7(1), pp. 65–88. doi: 10.17509/ijost.v7i1.43161.
- Gray, A., Singh, B. and Singh, S. (2021) ‘Low wind speed airfoil design for horizontal axis wind turbine’, *Materials Today: Proceedings*, 45, pp. 3000–3004. doi: 10.1016/j.matpr.2020.11.999.
- Handayani, S. and Damari, A. (2009) *Fisika untuk SMA dan MA Kelas XI*. Jakarta: Pusat Perbukuan Departemen Pendidikan Nasional.
- Hesty, N. W. *et al.* (2022) ‘Estimasi Potensi Energi Angin Indonesia Menggunakan Model Weather Research and Forecast - Four Dimension Data Assimilation (WRF-FDDA)’, *Jurnal Sains Dirgantara*, pp. 11–20.
- Homer Energy (2016) ‘HOMER Pro Version 3.7 User Manual’, *HOMER Energy*, (August), p. 416. Available at:
<http://www.homerenergy.com/pdf/HOMERHelpManual.pdf>.
- Indarto, Bramantya, M. A. and Ariyadi, H. M. (2023) *Kajian Teknologi Tipe dan Profil Propeler PLTB Untuk Daerah 3T Sebagai Program Dodieselisasi*.
- Iswahyudi, S. *et al.* (2020) ‘Effect of blade tip shapes on the performance of a small HAWT: An investigation in a wind tunnel’, *Case Studies in Thermal Engineering*, 19(October 2019), p. 100634. doi: 10.1016/j.csite.2020.100634.
- Karlsen, J. A. (2009) ‘Performance calculations for a model turbine’, pp. 1–92. Available at: <http://www.diva-portal.org/smash/record.jsf?pid=diva2:426926>.
- Kementerian ESDM (2021) ‘potensi-energi-angin-indonesia-2020 @ p3tkebt.esdm.go.id’. Available at: https://p3tkebt.esdm.go.id/pilot-project/energi_angin/potensi-energi-angin-indonesia-2020.



- Krogstad, P.-Å. and Lund, J. A. (2011) ‘An experimental and numerical study of the performance of a model turbine P.’, *Wind Energy*, (June 2011), pp. 1–20. doi: 10.1002/we.
- Littik, Y. F., Irawan, Y. H. and Bramantya, M. A. (2018) ‘Flow-driven simulation on variation diameter of counter rotating wind turbines rotor’, *MATEC Web of Conferences*, 154(January), pp. 18–21. doi: 10.1051/matecconf/201815401111.
- Lyon, C. A. et al. (1997) *Summary of Low-speed airfoil data*, National Advisory Committee for Aeronautics. Virginia: SoarTech Publications.
- Manwell, J. F. and McGowan, J. G. (2009) *WIND ENERGY EXPLAINED Theory, Design and Application*. Second Edi. West Sussex, England: John Wiley & Sons Ltd.
- Marten, D. and Wendler, J. (2013) ‘QBLADE: an open source tool for design and simulation of horizontal and vertical axis wind turbines’, *International Journal of Emerging Technology and Advanced Engineering*, 3(3), pp. 264–269. Available at:
<http://scholar.google.com/scholar?hl=en&btnG=Search&q=intitle:QBLA+DE:+AN+OPEN+SOURCE+TOOL+FOR+DESIGN+AND+SIMULATION+OF+HORIZONTAL+AND+VERTICAL+AXIS+WIND+TURBINES#0>.
- Munson, B. R. et al. (2009) *Fundamentals of Fluid Mechanics*, Fundamental of Fluids Mechanics. Available at:
http://civilcafe.weebly.com/uploads/2/8/9/8/28985467/fluid_mechanics.pdf.
- Noronha, N. P. and Krishna, M. (2021) ‘Aerodynamic performance comparison of airfoils suggested for small horizontal axis wind turbines’, *Materials Today: Proceedings*, 46, pp. 2450–2455. doi: 10.1016/j.matpr.2021.01.359.



- Sapto, A. D. and Rumakso, H. P. (2021) ‘UJI COBA PERFORMA BENTUK AIRFOIL MENGGUNAKAN SOFTWARE QBLADE TERHADAP TURBIN ANGIN TIPE SUMBU HORIZONTAL’, *Jurnal Teknik Mesin*, 10(1).
- Schümann, H., Pierella, F. and Sætran, L. (2013) ‘Experimental investigation of wind turbine wakes in the wind tunnel’, *Energy Procedia*, 35(1876), pp. 285–296. doi: 10.1016/j.egypro.2013.07.181.
- Sutrisno *et al.* (2018) ‘Field performance measurement of small-scale three-dimensional (3-D) wind turbines’, *AIP Conference Proceedings*, 203–90(June), p. 148.
- Sutrisno, Wibowo, S. B. and Iswahyudi, S. (2018) ‘Numerical Research on the Vortex Center on the Forward-Swept 3-D Wind Turbine Blades at Low Rotational Speed’, *Modern Applied Science*, 12(12), p. 80. doi: 10.5539/mas.v12n12p80.
- Versteeg, H. K. and Malalasekera, W. (2007) *An Introduction to Parallel Computational Fluid Dynamics 2nd edition*. second, IEEE Concurrency. second. london. doi: 10.1109/mcc.1998.736434.
- Wang, Q., Zhou, H. and Wan, D. (2012) ‘Numerical simulation of wind turbine blade-tower interaction’, *Journal of Marine Science and Application*, 11(3), pp. 321–327. doi: 10.1007/s11804-012-1139-9.
- Yossri, W., Ben, S. and Abdelke, A. (2021) ‘Airfoil type and blade size effects on the aerodynamic performance of small-scale wind turbines : Computational fluid dynamics investigation’, 229. doi: 10.1016/j.energy.2021.120739.
- Yu, G. *et al.* (2011) ‘An insight into the separate flow and stall delay for HAWT’, *Renewable Energy*, 36(1), pp. 69–76. doi: 10.1016/j.renene.2010.05.021.