

DAFTAR PUSTAKA

- Alican Özkan, A. A. (2013). *RUZGEM2013-11 Aerodynamic Design of Turbine Blades Using Full Dynamic Analysis of a Wind Turbine*.
- Archer, C. L., & Jacobson, M. Z. (2005). Evaluation of global wind power. *Journal of Geophysical Research D: Atmospheres*, 110(12), 1–20. <https://doi.org/10.1029/2004JD005462>
- Biswas, S., & Chen, J. S.-J. (2025). Power Coefficient for Large Wind Turbines Considering Wind Gradient Along Height. *Energies*, 18(3), 740. <https://doi.org/10.3390/en18030740>
- Borg, M., & Collu, M. (2015). A comparison between the dynamics of horizontal and vertical axis offshore floating wind turbines. *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*, 373(2035). <https://doi.org/10.1098/rsta.2014.0076>
- Burton, T. O. N. Y., Jenkins, N. I. C. K., Bossanyi, E., Sharpe, D., & Graham, M. I. C. H. A. E. L. (2021). *ind energy handbook (ed.)*. Hoboken.
- Das, A., Chimonyo, K. B., Kumar T, R., & Rani C. (2017). *ICECDS: 2017 International Conference on Energy, Communication, Data Analytics and Soft Computing : 1-2 August 2017, Chennai, India*. 1055.
- Dejene, G., Ancha, V. R., & Bekele, A. (2024). NREL Phase VI wind turbine blade tip with S809 airfoil profile winglet design and performance analysis using computational fluid dynamics. *Cogent Engineering*, 11(1). <https://doi.org/10.1080/23311916.2023.2293562>
- Dorrego-Portela, J. R., Ponce-Martínez, A. E., Pérez-Chaltell, E., Peña-Antonio, J., Mateos-Mendoza, C. A., Robles-Ocampo, J. B., Sevilla-Camacho, P. Y., Aviles, M., & Rodríguez-Reséndiz, J. (2024). Angle Calculus-Based Thrust Force Determination on the Blades of a 10 kW Wind Turbine. *Technologies*, 12(2). <https://doi.org/10.3390/technologies12020022>
- Drela, M., & Young, J. (2003). XFOIL: An Analysis and Design System for Low Reynolds Number Airfoils. *Massachusetts Institute of Technology*.

- F. M. White. (2011). *Fluid Mechanics* (7th ed.).
- Hand, M. M., Simms, D. A., Fingersh, L. J., Jager, D. W., Cotrell, J. R., Schreck, S., & Larwood, S. M. (2001). *Unsteady Aerodynamics Experiment Phase VI: Wind Tunnel Test Configurations and Available Data Campaigns*. <https://doi.org/10.2172/15000240>
- Hansen, M. (2015). *Aerodynamics of Wind Turbines*. Routledge. <https://doi.org/10.4324/9781315769981>
- Hau, E., & von Renouard, H. (2006). *Wind Turbines*. Springer Berlin Heidelberg. <https://doi.org/10.1007/3-540-29284-5>
- Hoffmann, V., & Wood, D. H. (2015). Performance analysis of S809 airfoil for low wind speed turbines. *Renewable Energy*.
- Huque, Z., Chowdhury, M. S., Lu, H., & Kommalapati, R. R. (2024). Aerodynamic Effect of Winglet on NREL Phase VI Wind Turbine Blade. *Energies*, 17(24), 6480. <https://doi.org/10.3390/en17246480>
- IEA, P. (2022). World energy outlook 2022. *Paris, France: International Energy Agency (IEA)*.
- Irena, I. (2019). Future of wind: Deployment, investment, technology, grid integration and socio-economic aspects. *Abu Dhabi*.
- Jenkins, P. E., & Younis, A. (2016). Flow Simulation to Determine the Effects of Shrouds on the Performance of Wind Turbines. *Journal of Power and Energy Engineering*, 04(08), 79–93. <https://doi.org/10.4236/jpee.2016.48008>
- Judijanto, L., ZM, A. A., & Winardi, B. (2025). The Role of Wind Power Plant in Energy Transition towards Net Zero Emission. *West Science Information System and Technology*, 3(01), 62–68. <https://doi.org/10.58812/wsist.v3i01.1847>
- Larsson, L., & Raven, H. C. (2010). *Ship Resistance and Flow*. Society of Naval Architects and Marine Engineers.

- Liu, S., Zhang, J., Sun, K., Guo, Y., & Guan, D. (2022). Influence of Swept Blades on the Performance and Hydrodynamic Characteristics of a Bidirectional Horizontal-Axis Tidal Turbine. *Journal of Marine Science and Engineering*, 10(3), 365. <https://doi.org/10.3390/jmse10030365>
- Manwell, J. F., McGowan, J. G., & Rogers, A. L. (2009). *Wind Energy Explained*. Wiley. <https://doi.org/10.1002/9781119994367>
- Manwell, J. F., McGowan, J. G., & Rogers, A. L. (2010). *Wind Energy Explained: Theory, Design and Application*.
- Martulli, L. M., Diani, M., Sabetta, G., Bontumasi, S., Colledani, M., & Bernasconi, A. (2025). Critical review of current wind turbine blades' design and materials and their influence on the end-of-life management of wind turbines. *Engineering Structures*, 327, 119625. <https://doi.org/10.1016/j.engstruct.2025.119625>
- Masson, C., Johansen, J., Sørensen, N., Zahle, F., Bak, C., Madsen, H., Politis, E., Schepers, G., Lindenburg, K., Snel, H., Rooij, R. P. J. O. M., Arens, E. A., van Bussel, G., Kuik, G., Meng, F., Sant, T., Knauer, A., Moe, G., Munduate, X., & Schreck, S. (2008). IEA wind annex XX: Hawt aerodynamic and models from wind tunnel measurements - final report. In *NREL/TP-500-43508*.
- Mathew, S. (2006). *Wind Energy*. Springer Berlin Heidelberg. <https://doi.org/10.1007/3-540-30906-3>
- Munson, B. R., Young, D. F., & Okiishi, T. H. (2013). *Fundamentals of Fluid Mechanics*. John Wiley & Sons.
- Olabi, A. G., Obaideen, K., Abdelkareem, M. A., AlMallahi, M. N., Shehata, N., Alami, A. H., Mdallal, A., Hassan, A. A. M., & Sayed, E. T. (2023). Wind Energy Contribution to the Sustainable Development Goals: Case Study on London Array. *Sustainability*, 15(5), 4641. <https://doi.org/10.3390/su15054641>
- Pamungkas, S. F., Wijayanto, D. S., & Saputro, H. (2017). PENGARUH VARIASI PENAMBAHAN FIN TERHADAP CUT IN SPEED TURBIN ANGIN

SAVONIUS TIPE S EFFECT OF FIN ADDITION VARIATION TO CUT IN SPEED “S” TYPE SAVONIUS WIND TURBINE VANOS JOURNAL OF MECHANICAL ENGINEERING EDUCATION. *VANOS Journal Of Mechanical Engineering Education*, 11(1), 11–20. <http://jurnal.untirta.ac.id/index.php/vanos>

Primadona, N., Fakultas, P., Dan, P., Kelautan, I., Kunci, K., Angin, :, Selatan, P., & Barat, J. (2014). *Variabilitas Angin dan Gelombang Laut Sebagai Energi Terbarukan di Pantai Selatan Jawa Barat*.

Ranjbar, M. H., Nasrazadani, S. A., Kia, H. Z., & Gharali, K. (2019). Energy Equipment and Systems Reaching the betz limit experimentally and numerically. In *Energy Equip. Sys* (Vol. 7, Issue 3). <http://energyequipsys.ut.ac.irwww.energyequipsys.com>

Robinson, M. L. (1981). *The Darrieus wind turbine for electrical power generation*. <https://doi.org/https://doi.org/10.1017/S0001924000029833>

ŞAHİN, E., & YILMAZ, İ. (2018). QRMW: quantum representation of multi wavelength images. *TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES*, 26(2), 768–779. <https://doi.org/10.3906/elk-1705-396>

Somers, D. M., & Grismer, M. E. (2001). S809 airfoil family for horizontal-axis wind turbines. *National Renewable Energy Laboratory*.

Wardhana, B. K., & Shin, B. (2025). Numerical Study of the Effect of Winglets with Multiple Sweep Angles on Wind Turbine Blade Performance. *Energies*, 18(5), 1292. <https://doi.org/10.3390/en18051292>

Wind, I. E. A. (2022). *International Energy Agency Wind Technology Collaboration Programme Task 30*.

Yousefzadeh, M., & Ahmadi Kamarposhti, M. (2024). *Wind Energy Conversion Systems: A Review on Aerodynamic, Electrical and Control Aspects, Recent Trends, Comparisons and Insights* (pp. 25–60). https://doi.org/10.1007/978-3-031-18389-8_2