

DAFTAR PUSTAKA

- Appa, K., 2002. *Counter Rotating Wind Turbine System*, California, US: Energy Innovations Small Grants (EIGS).
- Bartl, J., Pierella, F. & Sætran, L., 2012 . Wake measurements behind an array of two model wind turbines. *Energy Procedia* , 24 (-), p. 305 – 312.
- Betz, A., 1926. *Wind -Energie und Ihre Ausnutzung durch Windmuehlen*. Goettingen: Vandenhoeck & Ruprecht.
- Buana, S. W., 2017. *Analisis Pengaruh Rasio Diameter Sebagai Parameter Kinerja Aerodinamika Rotor Counter-Rotating Wind Turbine*, Yogyakarta, Indonesia: Universitas Gadjah Mada.
- Cao, H., 2011. *Aerodynamics Analysis of Small Horizontal Axis Wind Turbine Blades by Using 2D and 3D CFD Modelling*, Preston: University of Central Lancashire.
- Carcangiu, C. E., 2008. *CFD-RANS Study of Horizontal Axis Wind Turbines*, Cagliari: Università degli Studi di Cagliari.
- Cengel, Y.A. & Cimbala, Y.A. 2013. *Fluid mechanics, fundamentals and applications*, New York: Mc-Grawhill.
- Chantharasenawong, C., Suwantragul, B. & Ruangwiset, A., 2008. *Axial Momentum Theory for Turbines with Co-axial Counter Rotating Rotors*. Bangkok, KMUTT Sustainable Development to Save the Earth.
- Danish Energy Agency, 2016. *Powering Indonesia by Wind, Integration of Wind Energy in Power Systems*, Jakarta: Ea Energy Analyses.
- Gregg, J. R., Treuren, K. W. V., Burdett, T. A. & McClain, S. T., 2011. *Design Considerations, Performance Enhancing Techniques, and Wind Tunnel Testing for Small-Scale, Low Reynolds Number Wind Turbines*. Denver, Colorado, USA, ASME 2011 International Mechanical Engineering Congress & Exposition.
- Gundtoft, S., 2009. *Wind Turbines*, Aarhus: University College of Aarhus.
- Hansen, M., 2006. *Aerodynamics of Wind Turbines*. - penyunt. London: Earthscan.
- Hwang, B. & Lee, S., 2013. Optimization of a counter-rotating wind turbine using blade element and momentum theory. *Renewable and Sustainable energy*, Volume 5, pp. 1-10.

- Ingram, G., 2011. *Wind Turbine Blade Analysis using the Blade Element Momentum Method*, Durham: Durham University.
- Irawan, Y. H. & Bramantya, M. A., 2016. *Numerical Simulation of The Effect of Axial Distance Between Two Rotors in Counter-Rotating Wind Turbines*. Yogyakarta, 2nd International Conference on Science and Technology-Computer (ICST).
- IRENA, 2017. *Renewable Energy Prospects: Indonesia, a REmap analysis*, Abu Dhabi: International Renewable Energy Agency (IRENA).
- Jung, S. N., No, T.-S. & Ryu, K.-W., 2005. Aerodynamic performance prediction of a 30 kW counter-rotating wind turbine system. *Renewable Energy*, Volume 30, p. 631–644.
- KESDM, 2016. *Potential of Wind Energy in Indonesia*, Jakarta: KESDM.
- Kumar, P., Bensingh, R. & Abraham, A., 2012. Computational analysis of 30 kW contra rotating wind turbine. *ISRN Renewable Energy*.
- Lam, H. & Peng, H., 2017. Measurements of the wake characteristics of co- and counter-rotating twin H-rotor vertical axis wind turbines. *Energy*, 131(-), pp. 13-26.
- Lanzafame, R., Mauro, S. & Messina, M., 2016. Numerical and experimental analysis of micro HAWTs designed for wind tunnel applications. *Int J Energy Environ Eng*, Volume 7, p. 199–210.
- Lee, S., Kim, H. & Lee, S., 2010. Analysis of aerodynamic characteristics on a counter-rotating wind turbine. *Current Applied Physics*, 10(10), p. 339–342.
- Lee, S. & Son, E., 2012. Velocity interference in the rear rotor of a counter-rotating wind turbine. *Renewable Energy*, Volume 59, pp. 235-240.
- Mathew, S., 2006. *Wind Energy Fundamentals, Resource Analysis and Economics*. 1 penyunt. Heidelberg: Springer.
- McCosker, J., 2012. *Design and Optimization of a Small Wind Turbine*, Hartford, Connecticut: Rensselaer Polytechnic Institute.
- Mitulet, L.-A., Oprina, G., Chihaiia, R.-A. & Nicolaie, S., 2015. Wind Tunnel Testing for a New Experimental Model of Counter-Rotating Wind Turbine. *Procedia Engineering*, 100(1), p. 1141 – 1149.
- Moghadassian, B. & Rosenbergy, A., 2015. *Numerical Investigation of Aerodynamic Performance and Loads of a Novel Dual Rotor Wind Turbine*. Kissimmee, Florida, American Institute of Aeronautics and Astronautics, Inc..

- Moukalled & Mangani, D., 2016. *The Finite Volume Method in Computational Fluid Dynamics*. - penyunt. Jerman: Springer.
- Newman, B., 1983. Actuator-disc theory for vertical-axis wind turbine. *Journal of Wind Engineering and Industrial Aerodynamics*, Volume 15, pp. 347-355.
- OPRINA G.2016. A Review On Counter-Rotating Wind Turbines Development. *Journal Of Sustainable Energy*, 7(3), pp. 91-98.
- Ozbay, A., Tian, W. & Hu, H., 2016. Experimental Investigation on the wake characteristics and aeromechanics of dual rotor wind turbines. *Journal of Engineering for Gas Turbines and Power*, Volume 138, pp. 042602-1 - 042602-15.
- Schubel, P. J. & Crossley, R. J., 2012. Wind Turbine Blade Design (review). *Energies*, 5(-), pp. 3425-3449.
- Sharma, A. & Hu, H., 2015. *Innovative Dual-Rotor Wind Turbine Designs to Improve Wind Farm Efficiency*, Ames, Iowa: Department of Aerospace Engineering, Iowa State University.
- Singh, R. K. & Ahmed, M. R., 2013. Blade design and performance testing of a small wind turbine rotor for low wind speed applications. *Renewable Energy*, Volume 50, p. 812e819.
- Sudarsono, 2013. *Optimasi Rancangan Kincir Angin Modifikasi Standar NACA 4415 Menggunakan Serat Rami (Boehmeria Nivea) dengan Core Kayu Sengon Laut (Albizia falcata) yang Berkelanjutan*, Semarang: Universitas Diponegoro.
- Sutikno, P. & Saepudin, D. B., 2011. Design and Blade Optimization of Contra Rotation Double Rotor Wind Turbine. *International Journal of Mechanical & Mechatronics Engineering*, 11(1), pp. 17-26.
- Vasel-Be-Hagh, A. & Archer, C. L., 2016. Wind farms with counter-rotating wind turbines. *Sustainable Energy Technologies and Assessments (Article in Press)*, (-), pp. -.
- White, F. M., 1991. *Viscous Fluid Flow*. - penyunt. New York: McGraw-Hill.