

## DAFTAR PUSTAKA

- [1] C. Suroso, M. Ivanto, and Yandri, “Analisis Aerodinamika Pada Sayap Pesawat Fixed Wing Untuk Pesawat Tanpa Awak Jenis Talon Menggunakan Software Berbasis Computational Fluid Dynamics (1)\* Choirul Suroso, (2) Muhammad Ivanto, (3) Yandri,” *Jtrain*, vol. 4, no. 2, pp. 60–69, 2023.
- [2] H. Al hakim, “Analisis Aerodinamika pada Pesawat Nirawak MEGANTARA Menggunakan Metode CFD,” 2023.
- [3] S. Junk, W. Schröder, and S. Schrock, “Design of Additively Manufactured *Wind tunnel* Models for Use with UAVs,” *Procedia CIRP*, vol. 60, pp. 241–246, 2017, doi: 10.1016/j.procir.2017.02.027.
- [4] J. R. Hansen and L. K. Loftin, “Quest for Performance: The Evolution of Modern Aircraft,” *Technol. Cult.*, vol. 28, no. 3, p. 734, 1987, doi: 10.2307/3105034.
- [5] M. Zuhdi, M. Makhrus, and W. Wahyudi, “Aspek Fisika dalam Perancangan Pesawat Aeromodeling Jenis Delta Wing,” *Kappa J.*, vol. 5, no. 1, pp. 49–56, 2021, doi: 10.29408/kpj.v5i1.3443.
- [6] H. Samuel Saroinsong, V. C. Poekoel, and P. D.K Manembu, “Rancang bangun wahana pesawat tanpa awak (Fixed Wing) berbasis Ardupilot,” *J. Tek. Elektro dan Komput.*, vol. 7, no. 1, pp. 73–84, 2018.
- [7] P. Li and X. Liu, “Common Sensors in Industrial Robots: A Review,” *J. Phys. Conf. Ser.*, vol. 1267, no. 1, p. 12036, Jul. 2019, doi: 10.1088/1742-6596/1267/1/012036.
- [8] S. Yu, J. Heo, S. Jeong, and Y. Kwon, “Technical Analysis of VTOL UAV,” *J. Comput. Commun.*, vol. 04, no. 15, pp. 92–97, 2016, doi: 10.4236/jcc.2016.415008.
- [9] “Aircraft Wing Design: 10 Types of Aircraft Wings (Complete Guide),” 2023. .
- [10] S. Walsh, “Types of Aircraft Tail Structures: Conventional, T-Tail, *V-tail*, and Cruciform Tail Explained.” <https://pilotpassion.com/types-of-aircraft->

- tail-structures/ (accessed Mar. 31, 2024).
- [11] “A Training Sailplane Design NOVEMBER 2018 M . Sc . in Aircraft and Aerospace Engineering GRADUATE SCHOOL OF NATURAL & APPLIED SCIENCES,” no. November 2018, 2021.
- [12] I. Sadrehaghighi, “Aerodynamic Basics,” no. April, pp. 0–237, 2002, doi: 10.13140/RG.2.2.32859.72488/14.
- [13] J. John D. Anderson, *Fundamentals of Aerodynamics (in SI units)*, vol. 116, no. 1176. 2012.
- [14] M. Zuhdi, A. Doyan, S. Syahrial, J. Rokhmat, and K. Kosim, “Ratio of All Unit Weight (AUW) to Thrust force of Upper Wing Aeromodelling Aircraft,” *AMPLITUDO J. Sci. Technol. Inov.*, vol. 2, no. 1, pp. 14–19, 2023, doi: 10.56566/amplitudo.v2i1.12.
- [15] S. Darmawan and H. Tanujaya, “CFD investigation of flow over a backward-facing step using an RNG k- $\epsilon$  turbulence model,” *Int. J. Technol.*, vol. 10, no. 2, pp. 280–289, 2019, doi: 10.14716/ijtech.v10i2.800.
- [16] “Klasifikasi Aliran Fluida Statika Fluida versus Dinamika Fluida,” no. December, 2019.
- [17] S. Maxemow, “That’s a *Drag*: The Effects of *Drag* Forces,” *Undergrad. J. Math. Model. One + Two*, vol. 2, no. 1, pp. 1–16, 2013, doi: 10.5038/2326-3652.2.1.4.
- [18] M. Yogatama and R. Trisno, “Studi Koefisien *Drag* Aerodinamika pada Model Ahmed *Body* Terbalik Berbasis Metode Numerik,” *J. Tek. Mesin*, vol. 7, no. 1, p. 10, 2018, doi: 10.22441/jtm.v7i1.2235.
- [19] NASA Gleen Research Center, “What is *Lift*?,” 2022. <https://www1.grc.nasa.gov/beginners-guide-to-aeronautics/what-is-lift/#:~:text=Lift is a mechanical aerodynamic,perpendicular to the flow direction.> (accessed Mar. 03, 2024).
- [20] A. Saputra, H. E. Priyono, I. Hidayat, L. Iryani, and D. M. Gunara, “Modifikasi *Airfoil* Sayap Pesawat Conceptual Transport RM-001,” *J. Ind. Elektro dan Penerbangan*, vol. 6, no. 1, pp. 41–45, 2016.
- [21] K. Abidin and S. Wagiani, “STUDI ANALISIS PERBANDINGAN

- KECEPATANALIRAN AIR MELALUI PIPA VENTURI DENGAN PERBEDAAN DIAMETER PIPA,” *J. Din.*, vol. 04, no. April, pp. 62–78, 2013.
- [22] National Aviation Academy, “Airfoil Design 101: What Is an Airfoil?,” 2022. <https://www.naa.edu/airfoil-design/> (accessed Mar. 03, 2024).
- [23] M. F. Hidayat, “Analisa Aerodinamika Airfoil Naca 0021 Dengan Ansys Fluent,” *J. Kaji. Tek. Mesin*, vol. 1, no. 1, pp. 43–59, 2016, doi: 10.52447/jktm.v1i1.332.
- [24] A. Lennon, *RC Model Aircraft Design*. 2005.
- [25] E. Jacobs, K. Ward, and R. Pinkerton, “The characteristics of 78 related airfoil sections from tests in the variable-density wind tunnel,” *Natl. Advis. Comm. Aeronaut.*, pp. 299–354, 1933.
- [26] J. Jansch and H. Birkhofer, “The development of the guideline VDI 2221 - The change of direction,” *9th Int. Des. Conf. Des. 2006*, pp. 45–52, 2006.
- [27] R. Löffler, S. Tremmel, and R. Hornfeck, “Development and Implementation of a Guideline for the Combination of Additively Manufactured Joint Assemblies with Wire Actuators made of Shape Memory Alloys,” *Procedia CIRP*, vol. 119, no. May, pp. 1–6, 2023, doi: 10.1016/j.procir.2023.02.125.
- [28] W. P. J, D. R. L, and Sutrisno, “Opsis,” *Optimasi Sist. Ind.*, vol. 11, no. 2, pp. 141–149, 2018.
- [29] R. Kristiawan, F. Imaduddin, D. Ariawan, U. Sabino, and Z. Arifin, “A review on the fused deposition modeling (FDM) 3D printing: Filament processing, materials, and printing parameters,” *Open Eng.*, vol. 11, pp. 639–649, 2021, doi: 10.1515/eng-2021-0063.
- [30] I. M. Idris, “Rancang Bangun Terowongan Angin (*Wind tunnel*) Tipe Subsonic Dengan Test Section 0,2 X 0,2 M Untuk Alat Peraga Mekanika Fluida,” *Mechonversio Mech. Eng. J.*, vol. 2, no. 2, p. 19, 2019, doi: 10.51804/mmej.v2i2.614.
- [31] Z. Ritchie, “Particle Image Velocimetry Design & Installation,” *Z*, 2016, [Online]. Available:

<https://scholarworks.uark.edu/meeguhtfromhttps://scholarworks.uark.edu/meeguht/58>.

- [32] D. Raval, S. V Jain, A. M. Acharii, and K. Ghosh, "Design and analysis of smoke flow visualization apparatus for *wind tunnel*," *IOP Conf. Ser. Mater. Sci. Eng.*, vol. 1206, no. 1, p. 012014, 2021, doi: 10.1088/1757-899x/1206/1/012014.
- [33] E. Abhishek, "Flow Visualisation by Laser Sheet in a Smoke-Tunnel," *J. Math. Tech. Comput. Math.*, vol. 3, no. 1, pp. 1–11, 2024, doi: 10.33140/jmtcm.03.01.03.
- [34] P. Huang, Y. Tang, B. Yang, and T. Wang, "Research on Scenario Modeling for *V-tail* Fixed-Wing UAV Dynamic Obstacle Avoidance," *Drones*, vol. 7, no. 10, 2023, doi: 10.3390/drones7100601.
- [35] E. Eppler, "Jurnal Perhubungan Udara Comparative Study Aerodynamics Effects of *Wingtip* Fence *Winglet* on Fix Wing *Airfoil*," vol. 9066, pp. 67–76, 2019.
- [36] T. Hariawan, "Studi Eksperimen Karakteristik Aerodinamika Variasi Model Uji pada AF100 Subsonic *Wind tunnel*," 2023.
- [37] Creality3D, "LD-002R LCD Resin 3D Printer," 2021. <https://www.creality3dofficial.com/products/ld-002r-lcd-resin-3d-printer> (accessed May 22, 2021).
- [38] Sunlu, "SUNLU PLA Data Sheet," 2024, [Online]. Available: [https://cdn.shopifycdn.net/s/files/1/0152/6507/1190/files/PLA\\_PLUS\\_Data\\_Sheet.pdf?v=1693154665](https://cdn.shopifycdn.net/s/files/1/0152/6507/1190/files/PLA_PLUS_Data_Sheet.pdf?v=1693154665).
- [39] W. Chakroun, I. Al-Mesri, and S. Al-Fahad, "Effect of Surface Roughness on the Aerodynamic Characteristics of a Symmetrical *Airfoil*," *Wind Eng.*, vol. 28, no. 5, pp. 547–564, 2004, doi: 10.1260/0309524043028136.