

## DAFTAR PUSTAKA

- Anokhin, I., Faragasso, S.A., 2025. May 2025 updated analysis of Russian Shahed 136 deployment against Ukraine.
- Anuar, K., Akbar, M., Aziz, H.A., Soegihin, A., 2022. Experimental test on aerodynamic performance of propeller and its effect on the flight performance of Serindit V-2 UAV. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 91, 120–132. <https://doi.org/10.37934/arfmts.91.2.120132>.
- Badan Pusat Statistik Kabupaten Sleman, 2023. Indikator Iklim Sleman 2023 (Diakses 5 Desember 2023). <https://slemankab.bps.go.id/id/statistics-table/2/MTA4IzI=/indikator-iklim-sleman.html>.
- Bari, S., Sawant, P., 2019. Improve of performance by 2-step variations of intake runner length and intake valve timing in the induction system of a SI engine, in: *Energy Procedia*. Elsevier Ltd, pp. 108–115. <https://doi.org/10.1016/j.egypro.2019.02.125>.
- Bhandari, V.B., 2010. *Design of machine elements*, 3rd ed. Tata McGraw Hill Education Private Limited.
- Blom, J.D., 2010. *Unmanned aerial systems: A historical perspective*.
- Brusa, E., Dagna, A., Delprete, C., Gastaldi, C., 2024. A two-step optimization for crankshaft counterweights. *Engineering Science and Technology, an International Journal*, 51. <https://doi.org/10.1016/j.jestch.2024.101657>.
- Bueno, J.P.V.M., 2011. Análise do desempenho de motores diesel utilizando óleo combustível pesado e combustível destilado marítimo. Universidade Federal do Rio de Janeiro, Rio de Janeiro.
- Bueno, J.P.V.M., Belchior, C.R.P., 2012. Evaluation of ignition and combustion quality of different formulations of heavy fuel marine oil by laboratory and engine test.
- Cengel, Y.A., Boles, M.A., 2015. *Thermodynamics: An engineering approach*, 8th ed. McGraw-Hill Education.
- Chan, K., Ordys, A., Volkov, K., Duran, O., 2013. Comparison of engine simulation software for development of control system. *Modelling and Simulation in Engineering*. <https://doi.org/10.1155/2013/401643>.
- Cordon, D., Dean, C., Steciak, J., Beyerlein, S., 2007. One-dimensional engine modeling and validation using Ricardo WAVE.
- Dumka, P., Rana, K., Tomar, S.P.S., Pawar, P.S., Mishra, D.R., 2022. Modelling air standard thermodynamic cycles using python. *Advances in Engineering Software*, 172. <https://doi.org/10.1016/j.advengsoft.2022.103186>.

- Faishal, A., Setyadewi, I.T., Aklis, N., Harjanto, F., Wibowo, A.M., Supriyanto, A., 2025. Comparative study of propeller thrust force on unmanned aerial vehicle using ground testing methods and theoretical calculations. *Engineering Proceedings*, 84. <https://doi.org/10.3390/engproc2025084059>.
- Fallah, S., 2014. *Electric and hybrid vehicles-technologies, modeling and control: A mechatronic approach*, 1st ed. John Wiley & Sons, Ltd.
- Ganesan, V., 2012. *IC engines*, 4th ed. Tata McGraw Hill.
- Gupta, D., Wankhande, S.R., 2015. Design and analysis of cooling fins. *international journal on mechanical engineering and robotics (IJMER)*, 3.
- Hardie, J., 2024. Ukraine's new Unmanned Systems Forces takes shape. *Long War Journal*, 21 June (Diakses 31 Desember 2024). <https://www.longwarjournal.org/archives/2024/06/ukraines-new-unmanned-systems-forces-takes-shape.php>.
- Hassanalain, M., Abdelkefi, A., 2014. Classifications, applications, and design challenges of drones: A review. *Progress in Aerospace Sciences* 91, 99–131. <https://doi.org/https://doi.org/10.1016/j.paerosci.2017.04.003>.
- Heywood, J.B., 2018. *Internal combustion engine fundamentals*, 2nd ed. McGraw-Hill Education.
- Hoag, K., Dodlinger, B., 2016. *Vehicular engine design*, 2nd ed. Springer, New York, USA. <https://doi.org/10.1007/978-3-7091-1859-7>.
- Huang, J., 2021. Survey on design technology of distributed electric propulsion aircraft. *Astronaut*, 42.
- Incropera, F.P., Dewitt, D.P., Bergman, T.L., Lavine, A.S., 2005. *Fundamental of heat and mass transfer*, 6th ed. John Wiley & Sons.
- Ivana, R.T., Siswanto, E., Widhiyanuriyawan, D., 2021. Perbandingan kinerja motor bakar 6-langkah dengan power-ekspansi sampai titik mati bawah menggunakan bahan bakar pertalite dan etanol 677–686. <https://doi.org/10.21776/ub.jrm.2021.012.03.17>.
- Kashikar, A., Suryawanshi, R., Sonone, N., Thorat, R., Savant, S., 2021. Development of muffler design and its validation. *Applied Acoustics*, 180. <https://doi.org/10.1016/j.apacoust.2021.108132>,
- Kong, X., Liu, H., 2021. Research progress of key technologies of aviation piston engine for UAV, 50.
- Kong, X., Zhang, Z., Lu, J., Li, J., Yu, L., 2018. Review of electric power system of distributed electric propulsion aircraft. *Astronaut*, 39. <https://doi.org/10.7527/S1000-6893.2017.21651>.

- Kunertova, D., 2023. The war in Ukraine shows the game-changing effect of drones depends on the game. <https://doi.org/10.3929/ethz-b-000606858>.
- Lesmana, D., Permana, Y., Santoso, B., Infantono, A., 2021. Aplikasi drone militer dengan produk alutsista indonesia untuk over the horizon operations. Prosiding Seminar Nasional Sains Teknologi dan Inovasi Indonesia, 3, 1–10. <https://doi.org/10.54706/senastindo.v3.2021.149>.
- Ludvigsen, K.E., 2001. Classic racing engines : Expert technical analysis of fifty of the greatest motorsport power units, 1st ed. Haynes, Sparkford,UK.
- Maamri, R., Georgivitch Dyatshenko, W., Varonkov, A.I., Linkov, O.U., Nikitenko, Y.N., Dubé, Y., Toubal, L., Kodjo, A., Dyatshenko, G., 2013. Development of external combustion engine. American Journal of Vehicle Design, 1, 25–29. <https://doi.org/10.12691/ajvd-1-2-2>.
- MacNeill, R., Verstraete, D., Gong, A., 2017. Optimisation of propellers for UAV powertrain, in: In Proceedings of the 53rd AIAA/SAE/ASEE Joint Propulsion Conference. Atlanta, p. 5090.
- Magzter, 2023. ‘Aerovironment awarded \$64.6 million contract for Switchblade 300 loitering missile system’. Future Flight, May (Diakses 29 September 2025). <https://www.magzter.com/stories/flying-aviation/future-flight/aerovironment-awarded-646-million-contract-for-switchblade-300-loitering-missile-systems?srsltid=afmboopgx1aglrsvu0pq3bvbp1pkgvwuim5qjs8dgvo6svql e0ppi>
- Malo, E.G., 2024. How Ukraine’s defense companies have adapted to two years of war. Defense News, 23 February (Diakses 31 Desember 2024). <https://www.defensenews.com/global/europe/2024/02/22/how-ukraines-defense-companies-have-adapted-to-two-years-or-war/>.
- Molloy, O., 2024. Drones in modern warfare: Lessons learnt from the war in Ukraine.
- Notte, H., 2025. ‘Russia no longer needs Iran’s to sustain the war in Ukraine. War in Ukraine, 25 June (Diakses 29 September 2025). <https://www.ft.com/content/ac24e38c-d679-44e5-8d29-ef2f0f815873>.
- Ozsoysal, O.A., 2010. Effects of combustion efficiency on an otto cycle. International Journal of Exergy 7, 232–242. <https://doi.org/10.1504/IJEX.2010.031242>.
- Prakken, B., 2022. Design, modelling, and control of a novel multirotor uav with embedded 3d-printed thrust force sensor. University of Twente, Enschede.
- Pulkrabek, W.W., 2003. Engineering fundamentals of the internal combustion engine. Prentice Hall.
- Ricardo Inc, 2009. Ricardo software: WAVE user’s manual. 2009.

- Rickli, J.M., Mantellasi, F., 2024. The war in Ukraine: Reality check for emerging technologies and the future of warfare.
- Russel, K., 2018. Kinematics and Dynamics of Mechanical Systems, Second Edition: Implementation in MATLAB and SimMechanics, Second. ed. Taylor & Francis.
- Ryan, M., Hinote, C., 2024. Uncrewed systems and the transformation of U.S. warfighting capacity. War on the Rocks, 9 February (Diakses 31 Desember 2024). <https://warontherocks.com/2024/02/uncrewed-systems-and-the-transformation-of-u-s-warfighting-capacity/>.
- Saito Seisakusho, 2020. Saito Engine Products (Diakses 8 Agustus 2024). <https://www.saito-mfg.com/en/products-4st-en/>.
- Singhal, G., Bansod, B., Mathew, L., 2018. Unmanned aerial vehicle classification, applications and challenges: A review. <https://doi.org/10.20944/preprints201811.0601.v1>.
- Smith, J.J., 2014. Beyond the horizon: developing future airpower strategy.
- Sonawane, C.R., Rath, P., Vats, N., Patekar, S., Verma, P., Pandey, A., 2021. Numerical simulation to evaluate the thermal performance of engine cylinder fins: Effect of fin geometry and fin material, in: Materials Today: Proceedings. Elsevier Ltd, pp. 1590–1598. <https://doi.org/10.1016/j.matpr.2021.07.416>.
- Sonawane, U., Mustafi, N.N., 2020. Design and Development of Small Engines for UAV Applications, in: Energy, Environment, and Sustainability. Springer Nature, pp. 231–246. [https://doi.org/10.1007/978-981-15-0368-9\\_11](https://doi.org/10.1007/978-981-15-0368-9_11)
- Sutton, H.I., 2024. Guide to ukraine’s long range attack drones. <http://www.hisutton.com/Ukraine-OWA-UAVs.html>
- Tadros, M., Ventura, M., Soares, C.G., 2020. Data driven in-cylinder pressure diagram based optimization procedure. Journal of Marine Science and Engineering,8. <https://doi.org/10.3390/JMSE8040294>.
- Telli, K., Kraa, O., Himeur, Y., Ouamane, A., Boumehraz, M., Atalla, S., Mansoor, W., 2023. A comprehensive review of recent research trends on unmanned aerial vehicles (UAVs). Systems 11. <https://doi.org/10.3390/systems11080400>
- Tyto Robotics, 2023. Tyto Robotics explores ways to calculate & measure propeller thrust. Tyto Robotics, 9 March (Diakses 20 September 2025). <https://www.unmannedsystemstechnology.com/feature/tyto-robotics-explores-ways-to-calculate-measure-propeller-thrust/>.
- USA Department of Defense, 2005. Unmanned Aircraft Systems Roadmap 2005-2030.
- Valavanis, K.P., Vachtsevanos, G.J., 2015. Handbook of unmanned aerial vehicles.

- X-engineer, 2016. Kinematic analysis of the ICE piston. X-engineer (Diakses 15 Februari 2024). <https://x-engineer.org/kinematic-analysis-piston/>.
- Yontar, A.A., Doğu, Y., 2016. 3-D modelling comparative study to evaluate performance and emissions of a spark ignition engine fuelled with gasoline and LNG. EDP Sciences. <https://doi.org/10.1051/mateconf/20168105003>.
- Zhang, B., Song, Z., Zhao, F., Liu, C., 2022. Overview of propulsion systems for unmanned aerial vehicles. Energies, 15. <https://doi.org/10.3390/en15020455>.
- Živković, M., 1980. Motori sa unutrašnjim sagorijevanjem. Beograd, Serbia.
- Zwijnenburg, W., Postma, F., 2018. Unmanned ambitions security implications of growing proliferation in emerging military drone markets.