

DAFTAR PUSTAKA

- Abuelnour, M.A., Said, M.F.M., & Abuelnuor, A.A.A. (2024). Numerical investigation of hydrogen-diesel dual fuel engine: Combustion and emissions characteristics under varying hydrogen concentration and exhaust gas recirculation. *Fuel*, 377, 132794.
- Agahhoseein, M., Heidari, M., & Ghiasi, M. (2021). Effects of hydrogen fraction on methane–air laminar flame speed. *Fuel*, 288, 119636.
- Ahmad, A. H., Darmanto, P. S., & Juangsa, F. B. (2023). Thermodynamic Study on Decarbonization of Combined Cycle Power Plant. *Journal of Engineering and Technological Sciences*, 55(5), 613–626.
- ANSYS Inc. (2025). ANSYS Forte User’s Guide.
- Babayev, R., Morén, M., & Johansson, B. (2025). Comparative computational study of hydrogen and natural gas in high-pressure direct-injection (HPDI) compression-ignition engines: Combustion characteristics, thermal efficiency, and local pollutant and greenhouse gas emissions. *Fuel*, 395, 135126.
- Berni, F., Cicalese, G., & Fontanesi, S. (2017). A modified thermal wall function for estimation of gas-to-wall heat fluxes. *Applied Thermal Engineering*, 115, 1045–1062.
- Cameretti, M. C., De Robbio, R., & Palomba, M. (2025). Strategies to improve ammonia *combustion* in a dual fuel marine engine by using CFD. *Fuel*, 381, 133440.
- Cengel, Y. A., & Boles, M. A. (2019). *Thermodynamics: An Engineering Approach*. 9th Ed. McGraw-Hill.
- Ghadamkheir, K., Moghiman, M., & Hatami, M. (2025). A concept for H₂-diesel engines: CFD-driven dual spray optimization with energy/exergy analysis for enhanced performance and sustainable combustion. *Case Studies in Thermal Engineering*, 72, 106325.

- Ghaffarzadeh, S., & Marami Milani, S. (2025). Energy and exergy analysis of low-temperature combustion in a light-duty diesel/CNG and biodiesel/CNG fueled engine. *Energy Conversion and Management*: X, 28, 101371.
- Heywood, J.B. (2018) *Internal Combustion Engine Fundamentals*. Second Edition. Disunting oleh R.S. Argenterio, Stephen M. Messina, dan Lynn M. New York: McGraw-Hill Education.
- Karagoz, Y., Güler, I., Sandalcı, T., Yüksek, L., & Dalkılıç, A. S. (2016). Effect of hydrogen enrichment on *combustion*. *Int. J. Hydrogen Energy*, 41, 656–665.
- Karimi, H., & Birouk, M. (2022). Hydrogen–diesel dual fuel *combustion* performance. *IJHE*, 47, 39586–39597.
- Li, Y., Jia, M., Chang, Y., Kokjohn, S. L., & Reitz, R. D. (2016). Thermodynamic energy and exergy analysis of three different engine combustion regimes. *Applied Energy*, 180, 849–858.
- Li, Y., Jia, M., Kokjohn, S. L., Chang, Y., & Reitz, R. D. (2018). Comprehensive analysis of exergy destruction sources in different engine combustion regimes. *Energy*, 149, 697–708.
- Li, Y., Sun, Z., Chen, Z., & Xu, Y. (2023). Effects of hydrogen addition on methane *combustion*. *IJHE*, 48, 681–692.
- Livaniou, S., & Papadopoulos, G. (2022). LNG as transitional fuel. *Sustainability*, 14(24), 16364.
- Livanos, G., Theotokatos, G., & Pagonis, D. (2014). LNG-fueled marine engines. *Energy*, 69, 577–587.
- Mustafi, N. N., Raine, R. R., & Verhelst, S. (2013). *Combustion* and emissions in dual fuel engine. *Fuel*, 109, 669–678.
- PT PLN (Persero) (2025) *Rencana Usaha Penyediaan Tenaga Listrik (RUPTL) PT PLN (Persero) Tahun 2025–2034*. Jakarta.
- Talibi, M., Hellier, P., & Ladommatos, N. (2018). Hydrogen-enriched natural gas *combustion*. *IJHE*, 43, 23445–23461.
- Tripathi, G., & Dhar, A. (2022). Performance, emissions, and combustion characteristics of methane-diesel dual-fuel engines: A review. *Frontiers in Thermal Engineering*, 2, 870077.

- Verhelst, S., & Wallner, T. (2009). Hydrogen-fueled internal *combustion* engines. *Progress in Energy and Combustion Science*, 35, 490–527.
- Wartsila Finland Oy (2014). Engine W50DF Operation Advanced. Turku.
- Wartsila Finland Oy (2014). Wartsila 50DF Engine Operation and Maintenance Manual. Vaasa.
- Xu, S., Filipi, Z. (2020). Quasi-dimensional multi-zone modeling of methane-diesel dual-fuel combustion. *Frontiers in Mechanical Engineering*, 6, 46.
- Xu, L., Dong, H., Liu, S., Shen, L., & Bi, Y. (2023). Study on the combustion mechanism of diesel/hydrogen dual fuel and the influence of pilot injection and main injection. *Processes*, 11(7), 2122.
- Zareei, J., Haseeb, M., Ghadamkheir, K., Farkhondeh, S., Yazdani, A., Ershov, K. (2020) “The effect of hydrogen addition to compressed natural gas on performance and emissions of a DI diesel engine by a numerical study,” *International Journal of Hydrogen Energy*, 45(58), hlm. 34241–34253.
- Zhang, Z., Lv, J., Li, W., Long, J., Wang, S., Tan, D., & Yin, Z. (2022). NG ignition by biodiesel-diesel blend. *Energy*, 256, 124662.