

REFERENSI

- [1] M. A. Karri, E. F. Thacher, and B. T. Helenbrook, “Exhaust energy conversion by thermoelectric generator: Two case studies,” *Energy Convers. Manag.*, vol. 52, no. 3, pp. 1596–1611, 2011.
- [2] Y. P. Saputro, F. D. Suprianto, P. Studi, T. Mesin, U. Kristen, and L. Belakang, “Yafet Pribadi Saputro 1), Fandi D. Suprianto 2),” pp. 1–7.
- [3] A. Molki, “Simple Demonstration of the Seebeck Effect,” vol. 9, no. 3, pp. 103–107, 2010.
- [4] N. Putra, R. A. Koestoer, M. Adhitya, A. Roekettino, and B. Trianto, “Potensi Pembangkit Daya Termoelektrik Untuk Kendaraan Hibrid,” *Makara Teknol.*, vol. 13, no. 2, pp. 53–58, 2009.
- [5] P. Aranguren, M. Araiz, D. Astrain, and A. Martínez, “Thermoelectric generators for waste heat harvesting: A computational and experimental approach,” *Energy Convers. Manag.*, vol. 148, pp. 680–691, Sep. 2017.
- [6] D. Champier, “Thermoelectric generators: A review of applications,” *Energy Convers. Manag.*, vol. 140, pp. 167–181, 2017.
- [7] A. D. Schlichting, S. R. Anton, and D. J. Inman, “Motorcycle waste heat energy harvesting,” no. April 2014, p. 69300B, 2008.
- [8] H. Hadiansyah and E. Roza, “Perancangan Pembangkit Listrik Tenaga Panas pada Knalpot Motor,” vol. 3, no. 2502, pp. 70–78, 2018.
- [9] A. Osipkov, R. Poshekhanov, G. Arutyunyan, A. Basov, and R. Safonov, “Modeling of Thermoelectric Generator Power Characteristics for

- Motorcycle-Type Engines," vol. 46, no. 10, pp. 6195–6196, 2017.
- [10] C. S. Cenadi, D. Jurusan, and D. Komunikasi, "Peranan Desain Kemasan Dalam Dunia," vol. 2, no. 1, pp. 92–103, 2000.
- [11] M. Latif, N. Hayati, and U. G. S. Dinata, "Potensi Energi Listrik Pada Gas Buang Sepeda Motor," *J. Rekayasa Elektr.*, vol. 11, no. 5, p. 163, 2015.
- [12] A. Seiring and P. Seiring, "studi awal unjuk kerja pendingin udara (air cooler) berbasis termoelektrik pada air duct sepeda motor tipe skutik," no. Snttm Xiv, pp. 7–8, 2015.
- [13] Holman, J. P., 1991, *Perpindahan Kalor*, Ed. 6, Jakarta: Erlangga. .
- [14] B. Firmansyah, F. Teknik, U. Sriwijaya, J. Raya, and P. Prabumulih, "dengan menggunakan metode elemen hingga," no. 1, pp. 25–29, 1994.
- [15] D. M. Rowe, "CRC handbook of thermoelectrics. CRC press," 1995.
- [16] R. Wirawan, "Analisa Penggunaan Heat Pipe pada Thermoelectric Generator," Department of Mechanical Engineering, Universitas Indonesia, Depok, Jawa Barat," 2012.
- [17] Z. Djafar, N. Putra, and R. A. Koestoer, "The Utilization of Heat Pipe on Cold Surface of Thermoelectric with Low-Temperature Waste Heat," vol. 302, pp. 410–415, 2013.
- [18] and M. Z. Q. Ma, H. Fang, "Theoretical analysis and design optimization of thermoelectric generator," Applied Thermal Engineering, vol. 127, pp. 758-764," 2017.
- [19] M. Gürth, G. Rogl, V. V. Romaka, A. Grytsiv, E. Bauer, and P. Rogl, "Thermoelectric high ZT half-Heusler alloys $Ti_{1-x-y}Zr_xHf_yNiSn$

- ($0 \leq x \leq 1; 0 \leq y \leq 1$)," *Acta Mater.*, vol. 104, pp. 210–222, Feb. 2016.
- [20] S. R. Gulwade, "Analysis of Heat Exchanger for," vol. 3, no. 7, pp. 10–13, 2016.
- [21] G. Theotokatos and G. Livanos, "Techno-economical analysis of single pressure exhaust gas waste heat recovery systems in marine propulsion plants," *Proc. Inst. Mech. Eng. Part M J. Eng. Marit. Environ.*, vol. 227, no. 2, pp. 83–97, 2013.
- [22] B. Orr, A. Akbarzadeh, and P. Lappas, "An exhaust heat recovery system utilising thermoelectric generators and heat pipes," *Applied Thermal Engineering*, 2016. .
- [23] R. Sukarno and J. T. Mesin, "Pemanfaatan Panas Gas Buang Sepeda Motor," pp. 149–156, 2016.
- [24] W. Tambunan, L. Umar, D. Fuji, and E. Seebeck, "sebagai generator termal memanfaatkan energi panas terbuang," pp. 720–726.
- [25] N. Espinosa, M. Lazard, L. Aixala, and H. Scherrer, "Modeling a Thermoelectric Generator Applied to Diesel Automotive Heat Recovery," vol. 39, no. 9, pp. 1446–1447, 2010.
- [26] and A. M. P. Aranguren, M. Araiz, D. Astrain, "Thermoelectric generators for waste heat harvesting: a computational and experimental approach," *Energy Conversion and Management*, vol. 148, pp. 680-691," 2017.
- [27] A. Nour Eddine, D. Chalet, X. Faure, and L. Aixala, *Optimisation et caractérisation d'un générateur thermoélectrique pour application marine*. 2018.

- [28] ferrotech.com, "Thermoelectric Technical Reference, Common Material Properties," ed.," 2018.
- [29] D. Reay, R. McGlen, and P. Kew, *Heat pipes: theory, design and applications*. Butterworth-Heinemann, 2013. .
- [30] A. Faghri, *Heat pipe science and technology*. Global Digital Press, 1995. .
- [31] A. Faghri, "Review and advances in heat pipe science and technology," *Journal of heat transfer*, vol. 134, no. 12, p. 123001, 2012. .
- [32] H. Shabgard, M. J. Allen, N. Sharifi, S. P. Benn, A. Faghri, and T. L. Bergman, "Heat pipe heat exchangers and heat sinks: opportunities, challenges, applications, analysis, and state of the art," *International Journal of Heat and Mass Transfer*, vol. 89, . .
- [33] Andriyanto, "Pemanfaatan Modul Termoelektrik Generator untuk Mengisi Baterei Ponsel T1," 2015.
- [34] Sugiyanto, "Pemanfaatan Panas Knalpot Sepeda Motor Matic 110 Cc Untuk Pembangkitan Listrik Mandiri," no. 62, pp. 105–111.
- [35] Rivaldo, M. B., et al. "Panen Energi Listrik Alternatif dengan Memanfaatkan Teknologi Termoelektrik pada Aspal Jalan Raya." (2011)..
- [36] T. Nagase, A. Sasaki, H. Y. Yasuda, T. Terai, T. Fukuda, and T. Kakeshita, "In situ transmission-electron-microscopy observation of solid-state amorphization behavior in Ti50Ni44Fe6 alloy by high-voltage electron microscopy," *Acta Mater.*, vol. 104, pp. 201–209, 2016.