

DAFTAR PUSTAKA

- Abasov, S. I., Babayeva, F. A., Zarbaliyev, R. R., Abbasova, G. G., Tagiyev, D. B., & Rustamov, M. I. (2003). Low-temperature catalytic alkylation of benzene by propane. *Applied Catalysis A: General*, 251(2), 267–274.
- Ahmed, M., & Name, G. (2021). *Design and Exergy Analysis of Organic Rankine Cycle (ORC) Design and Exergy Analysis of Organic Rankine Cycle (ORC) Thermodynamic-II Project Report Design and Exergy Analysis of Organic Rankine Cycle (ORC) Design and Exergy Analysis of Organic Rankine Cycle (ORC)*. <https://doi.org/10.13140/RG.2.2.36734.56642>
- Al-Badri, D. H., Al-Hamadani, A. A. F., & Al-Hassani, A. H. (2022). Influence of Evaporator Superheating and Pressure on the Performance ORC with R134a. *International Journal of Heat and Technology*, 40(2), 611–618. <https://doi.org/10.18280/ijht.400231>
- Altosole, M., Campora, U., Martelli, M., & Figari, M. (2014). Performance decay analysis of a marine gas turbine propulsion system. *Journal of Ship Research*, 58(03), 117–129.
- Anugerah, B. (n.d.). *Strategi Konektivitas Maritim Indonesia*. <https://doi.org/10.13140/RG.2.2.14910.87367>
- Arabkoohsar, A. (2019). Combined SCAES-ORC, a new concept of electricity storage and co-generation. *2019 9th International Conference on Power and Energy Systems (ICPES)*, 1–5.
- Ata, S., Kahraman, A., & Şahin, R. (2019). Thermal efficiency evaluation of an organic Rankine cycle with n-pentane as working fluid. *International Journal of Energy Applications and Technologies*, 6(2), 31–38.
- Branchini, L., De Pascale, A., Melino, F., & Torricelli, N. (2020). Optimum organic rankine cycle design for the application in a CHP unit feeding a district heating network. *Energies*, 13(6), 1314.
- Cengel, Y. A. & B. M. A. (2015). *Chapter 1 Introduction and Basic Concepts 1-12 Problem-Solving Technique Step 1: Problem Statement Step 2: Schematic Step 3: Assumptions and Approximations Step 4: Physical Laws Step 5: Properties Step 6: Calculations Step 7: Reasoning, Verification, and Discussion*

Engineering Software Packages A Remark on Significant Digits Summary References and Suggested Reading Problems.

- Cox, M., & Stevens, R. (1950). *The Regenerative Heat Exchanger for Gas-turbine Power-plant:* 163, 193–205.
https://doi.org/10.1243/PIME_PROC_1950_163_023_02
- Da Lio, L. (2019). *PRELIMINARY DESIGN OF ORGANIC FLUID TURBINES TO PREDICT THE EFFICIENCY.*
- Dawo, F., Eyerer, S., Wieland, C., & Spliethoff, H. (2018). *Optimization of Organic Rankine Cycle Technology.*
- Desai, N. B., & Bandyopadhyay, S. (2016). Thermo-economic analysis and selection of working fluid for solar organic Rankine cycle. *Applied Thermal Engineering,* 95, 471–481.
<https://doi.org/10.1016/j.applthermaleng.2015.11.018>
- Dincer, I., Haseli, Y., & Naterer, G. F. (2008). Thermal effectiveness correlation for a shell and tube condenser with noncondensing gas. *Journal of Thermophysics and Heat Transfer, 22(3)*, 501–507.
- Doerry, N. (2015). Naval power systems: Integrated power systems for the continuity of the electrical power supply. *IEEE Electrification Magazine, 3(2)*, 12–21.
- Duraivel, B., Shaik, S., Bansal, R., Khanda, S. D., Patel, D., Natarajan, M., Saleel, C. A., Jilte, R. D., & Ağbulut, Ü. (2024). A comprehensive review of Trinitor components: A sustainable waste heat recovery polygenerative system for diesel vehicles. In *Journal of Thermal Analysis and Calorimetry* (Vol. 149, Issue 5, pp. 1963–2006). Springer Science and Business Media B.V.
<https://doi.org/10.1007/s10973-023-12830-w>
- Girgin, I., & Ezgi, C. (2017). Design and thermodynamic and thermoeconomic analysis of an organic Rankine cycle for naval surface ship applications. *Energy Conversion and Management, 148*, 623–634.
<https://doi.org/10.1016/j.enconman.2017.06.033>
- Gonca, G., & Genc, I. (2021). Effects of ternary mixtures of propane-butane-hydrogen and different liquid fuels on the performance specifications of a spark ignition engine. *Energy Sources, Part A: Recovery, Utilization, and*

- Environmental Effects*, 44, 8890–8907.
<https://doi.org/10.1080/15567036.2021.1974982>
- Gottschal, A. J., & Korvezee, A. E. (2010). Vapour pressures and heats of vaporization of benzene. *Recueil Des Travaux Chimiques Des Pays-Bas*, 72(6), 473–482.
- Huda, M., Ulfa, S. M., & Hakim, L. (2013). Chemical Potential of Benzene Fluid from Monte Carlo Simulation with Anisotropic United Atom Model. *The Journal of Pure and Applied Chemistry Research*, 2(3), 115.
- Hwang, D. J., Jee, J. H., Kim, J. S., Kim, S., & Oh, C. (2023). A study on the design of Waste Heat Recovery Unit (WHRU) for 30kW Organic Rankine Cycle (ORC) power system for ships. *Journal of International Maritime Safety, Environmental Affairs, and Shipping*, 7(1).
<https://doi.org/10.1080/25725084.2023.2184603>
- Klimaszewski, P., & Klonowicz, P. (n.d.). *DESIGN AND PERFORMANCE ANALYSIS OF ORC CENTRIFUGAL PUMPS*.
<https://www.researchgate.net/publication/356284905>
- Kondo, C., & Hrnjak, P. S. (2012). *Heat rejection in condensers: desuperheating, condensation in superheated region and two phase zone*.
- Kurz, R. (2004). *GAS TURBINE FUEL CONSIDERATIONS*.
- Li, W., & Yu, Z. (2021). Cavitation models with thermodynamic effect for organic fluid cavitating flows in organic Rankine cycle systems: A review. *Thermal Science and Engineering Progress*, 26, 101079.
- Li, Y., Xu, H., Cao, K., & Hu, L. (2010). Efficiency analysis and thermal-hydraulic modeling of aerial piston pump at whole work condition. *北京航空航天大学学报*, 36(12), 1469–1472.
- Magee, J., & Bruno, T. (1996). Isochoric (p,ρ,T) Measurements for Liquid Toluene from 180 K to 400 K at Pressures to 35 MPa†. *Journal of Chemical & Engineering Data*, 41, 900–905. <https://doi.org/10.1021/JE960062Y>
- Mahmoud, A. M., Jaeseon, L. E. E., & Luo, D. (2015). *Composition of zeotropic mixtures having predefined temperature glide*. Google Patents.
- Mariano, A., Mussari, L., Camacho, A., Canzonieri, S., & Postigo, M. (2013). Thermophysical properties for the ternary systems toluene (1) + benzene (2) +

- methyl acetate (3), at various temperatures from 288.15 K to 318.15 K. *Physics and Chemistry of Liquids*, 51, 731–741.
<https://doi.org/10.1080/00319104.2013.812018>
- Miyamoto, H., & Uematsu, M. (2006). Measurements of Vapor Pressures from 280 to 369 K and (p, ρ , T) Properties from 340 to 400 K at Pressures to 200 MPa for Propane. *International Journal of Thermophysics*, 27(4), 1052–1060.
- Mohd Ihsan Bin Mamat, A., Ahmad Najmi Wan Mohamed, W., Mohd Razif, N. H., Kamaruddin, N. H., I Bin Mamat, A. M., & N W Mohamed, W. A. (2016). *Characteristic of ORC finned-Tube condenser design using ammonia-water mixture*. 11(12). <https://www.researchgate.net/publication/305373864>
- Nikolay, G., Svyatoslav, T., & Tatiana, S. (n.d.). *ANALYSIS OF THE PROPERTIES OF WORKING SUBSTANCES FOR THE ORGANIC RANKINE CYCLE BASED DATABASE “REFPROP.”* <https://doi.org/10.1051/C>
- Oh, C., & Song, Y.-U. (2012). A optimization of the ORC for ship’s power generation system. *Journal of Advanced Marine Engineering and Technology*, 36(5), 595–602.
- Oyewunmi, O. A., & Markides, C. N. (2015). Effect of working-fluid mixtures on organic Rankine cycle system performance: Heat transfer and cost analysis. *Proceedings of the 11th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics (HEFAT 2015), Kruger National Park, South Africa*.
- Pahlevi, R. (n.d.). *ANALISIS SWOT: NETT ASSESSMENT KEKUATAN MARITIM INDONESIA DENGAN AUSTRALIA.* <https://doi.org/10.13140/RG.2.2.34466.24007>
- Raeva, V. M., Anisimov, A. V., & Ryzhkin, D. A. (2021). Calculation of vaporization enthalpies of a benzene—cyclohexane system. *Russian Chemical Bulletin*, 70(4), 715–721.
- Rasta, I. M., Susila, I. D. M., & Subagia, I. W. A. (2018). Technology application of environmental friendly refrigeration (green refrigeration) on cold storage for fishery industry. *Journal of Physics: Conference Series*, 953(1), 012077.
- Reddy, G. S., & Reddy, M. M. (2014). Thermodynamic properties of binary liquid mixture of toluene with benzene. *Int J Pharm Bio Sci Jan*, 5(1), 1064–1073.

- Rider, M. J. (2015). Appendix A Engineering Equation Solver. In *Design and Analysis of Mechanisms* (pp. 279–295). Wiley.
<https://doi.org/10.1002/9781119054344.app1>
- Sébastien, C., Yannick, P., & Michaël, G. (2005). *PVP2005-71014 A 12 MM/S RMS SCREENING VIBRATION VELOCITY FOR PIPES USING ANSI-OM3 STANDARD AND REGULATORY DESIGN RULES*.
<http://www.asme.org/about-asme/terms-of-use>
- Setiawan, Rendy. (2024). *ANALISIS SISTEM TERMODINAMIKA ORGANIC RANKINE CYCLE PADA KAPAL KONTAINER*.
- Shu, G., Liang, Y., Wei, H., Tian, H., Zhao, J., & Liu, L. (2013). A review of waste heat recovery on two-stroke IC engine aboard ships. In *Renewable and Sustainable Energy Reviews* (Vol. 19, pp. 385–401). Elsevier Ltd.
<https://doi.org/10.1016/j.rser.2012.11.034>
- Shukla, K. (1996). Excess thermodynamic properties of ternary fluid mixtures from molecular dynamics simulation and van der Waals one-fluid theory. *Physics and Chemistry of Liquids*, 33(1), 37–56.
- Sim, J.-B., Yook, S.-J., & Kim, Y. W. (2023). Development of 180 kW organic Rankine cycle (ORC) with a high-efficiency two-stage axial turbine. *Energies*, 16(20), 7112.
- Siswanto, A., & Ruslan, W. (2021). Pengaruh Penambahan Zat Aditif Toluena pada Bahan Bakar Premium terhadap Performa Vespa Sprint 150 3V. *Jurnal Syntax Admiration*, 2(9), 1604–1616. <https://doi.org/10.46799/jsa.v2i9.305>
- Sofan, A. (2012). *Analisa pengaruh penambahan regenerator pada sistem turbin gas siklus terbuka sederhana (Studi kasus PT. Indonesia Power UBP Pemaron Singaraja Bali)*.
- Sprouse, C. E. (2024). Review of Organic Rankine Cycles for Internal Combustion Engine Waste Heat Recovery: Latest Decade in Review. In *Sustainability (Switzerland)* (Vol. 16, Issue 5). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390-su16051924>
- Sun, D., Liu, Z.-Z., Zhang, H., & Qin, J. (2023). Performance analysis of a new ORC-VCC system with mechanical overheating and correlation fitting of most

- important system parameter. *Journal of Thermal Science and Engineering Applications*. <https://doi.org/10.1115/1.4063733>
- Sundeep, A. R., & Rakesh, S. G. (2021). Effect of temperature of working fluid on the performance of centrifugal thermal pumps. *AIP Conference Proceedings*, 2358(1).
- Thaddaeus, J., & Ezeaku, I. I. (2023). AN ENVIRONMENTAL IMPACT ASSESSMENT OF AN ORC-BASED EXHAUST HEAT RECOVERY SYSTEM FOR APPLICATION IN VEHICLES. *Journal of Engineering and Sustainable Development*, 27(6), 671–687. <https://doi.org/10.31272/jeasd.27.6.1>
- Utomo, S. M., Azka, M., Budiwati, S. V., Rahman, A., Setiawan, H., Faisal, Hastuti, P., & Ilyas, A. (2024). Evaluation of readiness to commercialize research results with the IRL framework: a case study of ORC turbines in Indonesia. *International Journal of Power Electronics and Drive Systems*, 15(1), 530–539. <https://doi.org/10.11591/ijpeds.v15.i1.pp530-539>
- Yagov, V., & Guseva, D. V. (2004). Heat Transfer with the Boiling of Binary Liquid Mixtures. *Thermal Engineering (English Translation of Teploenergetika)*, 51, 174–181.
- Yun, Y. Il, Park, I. Y., & Song, S. J. (2005). Performance degradation due to blade surface roughness in a single-stage axial turbine. *J. Turbomach.*, 127(1), 137–143.
- Zhang, X., Zhang, Y., Li, Z., Wang, J., Wu, Y., & Ma, C. (2020). Zeotropic mixture selection for an organic rankine cycle using a single screw expander. *Energies*, 13(5), 1022.
- Zhang, Y., Song, J., & Xia, Y. (2018). Research on Performance Test Characteristics of Solar Energy ORC Generator Set. *MATEC Web of Conferences*, 232. <https://doi.org/10.1051/matecconf/201823204007>
- Zwebek, A., & Pilidis, P. (2003). Degradation effects on combined cycle power plant performance—Part II: steam turbine cycle component degradation effects. *J. Eng. Gas Turbines Power*, 125(3), 658–663.