

DAFTAR PUSTAKA

- Bang, M., Kim, S., Choi, S., Sohn, H. S., & Cho, H. H. (2020). Impingement/effusion cooling with a hollow cylinder structure for additive manufacturing. *International Journal of Heat and Mass Transfer*, 155. <https://doi.org/10.1016/j.ijheatmasstransfer.2020.119786>
- Barik, A. K., Dash, S. K., Patro, P., & Mohapatra, S. (2014). Experimental and numerical investigation of air entrainment into a louvred funnel. *Applied Ocean Research*, 48, 176–185. <https://doi.org/10.1016/j.apor.2014.08.009>
- Birk, A. M., & Davis, W. R. (1989). *Marine Gas Turbine Infra-Red Signature Suppression: Aerothermal Design Considerations*. <http://www.asme.org/about-asme/terms-of-use>
- Chamkha, A. J., Abbasbandy, S., Rashad, A. M., & Vajravelu, K. (2012). Radiation Effects on Mixed Convection over a Wedge Embedded in a Porous Medium Filled with a Nanofluid. *Transport in Porous Media*, 91(1), 261–279. <https://doi.org/10.1007/s11242-011-9843-5>
- Chandrakar, V., Mukherjee, A., & Senapati, J. R. (2022). Free convection cooling of a real-scale IRS device with a louvered cylindrical funnel: A three dimensional numerical study. *International Communications in Heat and Mass Transfer*, 138. <https://doi.org/10.1016/j.icheatmasstransfer.2022.106356>
- Chandrakar, V., & Senapati, J. R. (2020a). Numerical investigation of flow and heat transfer characteristics of a full-scale infrared suppression device with cylindrical funnels. *International Journal of Thermal Sciences*, 153. <https://doi.org/10.1016/j.ijthermalsci.2020.106355>
- Chandrakar, V., & Senapati, J. R. (2020b). Numerical investigation of flow and heat transfer characteristics of a full-scale infrared suppression device with cylindrical funnels. *International Journal of Thermal Sciences*, 153. <https://doi.org/10.1016/j.ijthermalsci.2020.106355>

- Chandrakar, V., & Senapati, J. R. (2020c). Numerical investigation of flow and heat transfer characteristics of a full-scale infrared suppression device with cylindrical funnels. *International Journal of Thermal Sciences*, 153. <https://doi.org/10.1016/j.ijthermalsci.2020.106355>
- Chandrakar, V., Senapati, J. R., & Mohanty, A. (2021). Conjugate heat transfer due to conduction, natural convection, and radiation from a vertical hollow cylinder with finite thickness. *Numerical Heat Transfer; Part A: Applications*, 79(6), 463–487. <https://doi.org/10.1080/10407782.2020.1847524>
- Cho, S., Shin, M. H., Kim, Y. K., Seo, J. E., Lee, Y. M., Park, C. H., & Chung, J. H. (2009). Effects of infrared radiation and heat on human skin aging in vivo. *Journal of Investigative Dermatology Symposium Proceedings*, 14(1), 15–19. <https://doi.org/10.1038/jidsymp.2009.7>
- Coelho, P. J., Goncalves, J. M., Carvalho, M. G., & Trivic, D. N. (1998). Modelling of radiative heat transfer in enclosures with obstacles. In *Int. J. Heat Mass Transfer* (Vol. 41).
- Corasaniti, S., & Gori, F. (2017). Natural convection around a vertical cylinder (thermal probe) immersed in a porous medium. *International Communications in Heat and Mass Transfer*, 81, 72–78. <https://doi.org/10.1016/j.icheatmasstransfer.2016.12.006>
- Eiamsa-ard, S., Pethkool, S., Thianpong, C., & Promvonge, P. (2008). Turbulent flow heat transfer and pressure loss in a double pipe heat exchanger with louvered strip inserts. *International Communications in Heat and Mass Transfer*, 35(2), 120–129. <https://doi.org/10.1016/j.icheatmasstransfer.2007.07.003>
- FT UPNVJ. (2021). *PENULISAN SKRIPSI FAKULTAS TEKNIK*.
- Guo, Z., Yang, J., Tan, Z., Tian, X., & Wang, Q. (2021). Numerical study on gravity-driven granular flow around tube out-wall: Effect of tube inclination

- on the heat transfer. *International Journal of Heat and Mass Transfer*, 174. <https://doi.org/10.1016/j.jheatmasstransfer.2021.121296>
- Hussain, A., Hussain, F., Dar, M. N. R., Riaz, M. B., Ghith, E. S., & Telija, M. (2025). Effects of transfer of heat in magnetic hydrodynamics pseudoplastic nanofluid flow past over a vertical slender cylinder. *Alexandria Engineering Journal*, 116, 502–511. <https://doi.org/10.1016/j.aej.2024.12.024>
- Jalaal, M., Ghasemi, E., Ganji, D. D., Bararnia, H., Soleimani, S., Nejad, M. G., & Esmailpour, M. (2011). Effect of temperature-dependency of surface emissivity on heat transfer using the parameterized perturbation method. *Thermal Science*, 15(SUPPL.). <https://doi.org/10.2298/TSCI11S1123J>
- Kang, G. U., Chung, B. J., & Kim, H. J. (2014). Natural convection heat transfer on a vertical cylinder submerged in fluids having high Prandtl number. *International Journal of Heat and Mass Transfer*, 79, 4–11. <https://doi.org/10.1016/j.jheatmasstransfer.2014.07.077>
- Kornhauser, A. A., & Smith, J. L. (1994). *Application of a Complex Nusselt Number to Heat Transfer During Compression and Expansion*. <http://heattransfer.asmedigitalcollection.asme.org/>
- Kumar, M. A., Reddy, Y. D., Rao, V. S., & Goud, B. S. (2021). Thermal radiation impact on MHD heat transfer natural convective nano fluid flow over an impulsively started vertical plate. *Case Studies in Thermal Engineering*, 24. <https://doi.org/10.1016/j.csite.2020.100826>
- Leela, V., Seetharamu, K. N., Kotlani, N., & Gangadhara Reddy, R. (2020). Effect of asymmetrical wall heat flux and wall temperature ratio on mixed convection in a vertical micro-porous-channel with internal heat generation. *Propulsion and Power Research*, 9(4), 394–407. <https://doi.org/10.1016/j.jprr.2020.10.003>
- Mishra, S. C., & Stephen, A. (2011). Combined mode conduction and radiation heat transfer in a spherical geometry with non-Fourier effect. *International Journal*

of Heat and Mass Transfer, 54(13–14), 2975–2989.
<https://doi.org/10.1016/j.jheatmasstransfer.2011.02.053>

Mohanty, A., Senapati, S. K., & Dash, S. K. (2020). Natural convection cooling of an infrared suppression device (IRS) with conical funnels- a computational approach. *International Communications in Heat and Mass Transfer*, 118.
<https://doi.org/10.1016/j.icheatmasstransfer.2020.104891>

Nagendra, H., Tirunarayanan, M., & ramachandran, A. (1970). *nagendra1971 - cwhf*.

Nakhchi, M. E., & Esfahani, J. A. (2020). Numerical investigation of heat transfer enhancement inside heat exchanger tubes fitted with perforated hollow cylinders. *International Journal of Thermal Sciences*, 147.
<https://doi.org/10.1016/j.ijthermalsci.2019.106153>

Sun, T., Luan, Y., Sun, L., & Sun, P. (2016). *Research on Characteristics of a new Marine Gas Turbine Exhaust Ejector Device*.
<http://proceedings.asmedigitalcollection.asme.org/pdfaccess.ashx?url=/data/conferences/asmep/89469/>

Turabi, Y. U. U. Bin, Ahmad, S., Munir, S., Muhammad, T., Alshomrani, A. S., & Hussain Al-Hamami, M. A. (2025). Natural Convective Flow of Hybrid Nanofluid in a Triangular Enclosure with Heated Wavy Wall and Cold Obstacle. *Case Studies in Thermal Engineering*, 106515.
<https://doi.org/10.1016/j.csite.2025.106515>

Vahidifar, S., & Kahrom, M. (2015). Experimental study of heat transfer enhancement in a heated tube caused by wire-coil and rings. *Journal of Applied Fluid Mechanics*, 8(4), 885–892.
<https://doi.org/10.18869/acadpub.jafm.67.223.23359>

Zhou, Y., Wang, Q., & Li, T. (2017). A new model to simulate infrared radiation from an aircraft exhaust system. In *Chinese Journal of Aeronautics* (Vol. 30,

Issue 2, pp. 651–662). Chinese Journal of Aeronautics.
<https://doi.org/10.1016/j.cja.2017.02.014>

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STUDI NUMERIK PERPINDAHAN KALOR PADA FUNNEL BERONGGA SILINDER

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