



## DAFTAR PUSTAKA

- [1] D. Yan et al., “IEA EBC Annex 66: Definition and simulation of occupant behavior in buildings,” *Energy Build.*, vol. 156, pp. 258–270, 2017, doi: <https://doi.org/10.1016/j.enbuild.2017.09.084>.
- [2] P. Lotfabadi, “Analyzing passive solar strategies in the case of high-rise building,” *Renew. Sustain. Energy Rev.*, vol. 52, pp. 1340–1353, 2015, doi: <https://doi.org/10.1016/j.rser.2015.07.189>.
- [3] T. Hong, C. Koo, J. Kim, M. Lee, and K. Jeong, “A review on sustainable construction management strategies for monitoring, diagnosing, and retrofitting the building’s dynamic energy performance: Focused on the operation and maintenance phase,” *Appl. Energy*, vol. 155, pp. 671–707, 2015, doi: <https://doi.org/10.1016/j.apenergy.2015.06.043>.
- [4] Indonesia, *Population Census of Indonesia*, Statistical Centre of Indonesia, Jakarta, 2010.
- [5] Indonesia, *Handbook of Energy and Economic Statistics of Indonesia*, Ministry of Energy and Mineral Resources of Indonesia, Jakarta, 2018.
- [6] H. Feriadi and N. H. Wong, “Thermal comfort for naturally ventilated houses in Indonesia,” *Energy Build.*, vol. 36, no. 7, pp. 614–626, 2004, doi: <https://doi.org/10.1016/j.enbuild.2004.01.011>.
- [7] S. Rodríguez Trejo and V. Fuentes Freixanet, “CFD SIMULATION OF AN INCLINED ROOF SOLAR CHIMNEY,” *Rev. Hábitat Sustentable*, vol. 11, pp. 72–81, Dec. 2021, doi: <https://dx.doi.org/10.22320/07190700.2021.11.02.06>.
- [8] R. Khanal and C. Lei, “Numerical investigation of the ventilation performance of a solar chimney,” *ANZIAM J.*, vol. 52, pp. C899–C913, Jan. 2010, doi: [10.21914/anziamj.v52i0.3947](https://doi.org/10.21914/anziamj.v52i0.3947).
- [9] Y. Q. Nguyen and J. C. Wells, “A numerical study on induced flowrate and thermal efficiency of a solar chimney with horizontal absorber surface for ventilation of buildings,” *J. Build. Eng.*, vol. 28, p. 101050, 2020, doi: <https://doi.org/10.1016/j.jobe.2019.101050>.
- [10] N. A. Pambudi, I. R. Nanda, and A. D. Saputro, “The energy efficiency of a modified v-corrugated zinc collector on the performance of solar water heater (SWH),” *Results Eng.*, vol. 18, p. 101174, 2023, doi: <https://doi.org/10.1016/j.rineng.2023.101174>.
- [11] L. Shi, G. Zhang, W. Yang, D. Huang, X. Cheng, and S. Setunge, “Determining the influencing factors on the performance of solar chimney in buildings,” *Renew. Sustain. Energy Rev.*, vol. 88, pp. 223–238, 2018, doi: <https://doi.org/10.1016/j.rser.2018.02.033>.
- [12] J. Mathur, N. K. Bansal, S. Mathur, M. Jain, and Anupma, “Experimental investigations on solar chimney for room ventilation,” *Sol. Energy*, vol. 80, no. 8, pp. 927–935, 2006, doi: <https://doi.org/10.1016/j.solener.2005.08.008>.
- [13] M. A. Hosien and S. M. Selim, “Effects of the geometrical and operational parameters and alternative outer cover materials on the performance of solar chimney used for natural ventilation,” *Energy Build.*, vol. 138, pp. 355–367, 2017, doi: <https://doi.org/10.1016/j.enbuild.2016.12.041>.





- [14] L. Shi and G. Zhang, "An empirical model to predict the performance of typical solar chimneys considering both room and cavity configurations," *Build. Environ.*, vol. 103, pp. 250–261, 2016, doi: <https://doi.org/10.1016/j.buildenv.2016.04.024>.
- [15] J. Mathur, S. Mathur, and Anupma, "Summer-performance of inclined roof solar chimney for natural ventilation," *Energy Build.*, vol. 38, no. 10, pp. 1156–1163, 2006, doi: <https://doi.org/10.1016/j.enbuild.2006.01.006>.
- [16] J. Kong, J. Niu, and C. Lei, "A CFD based approach for determining the optimum inclination angle of a roof-top solar chimney for building ventilation," *Sol. Energy*, vol. 198, pp. 555–569, 2020, doi: <https://doi.org/10.1016/j.solener.2020.01.017>.
- [17] H. H. Al-Kaiyem, K. V. Sreejaya, and A. O. Chikere, "Experimental and numerical analysis of the influence of inlet configuration on the performance of a roof top solar chimney," *Energy Build.*, vol. 159, pp. 89–98, 2018, doi: <https://doi.org/10.1016/j.enbuild.2017.10.063>.
- [18] J. Xamán, R. Vargas-López, M. Gijón-Rivera, I. Zavala-Guillén, M. J. Jiménez, and J. Arce, "Transient thermal analysis of a solar chimney for buildings with three different types of absorbing materials: Copper plate/PCM/concrete wall," *Renew. Energy*, vol. 136, pp. 139–158, 2019, doi: <https://doi.org/10.1016/j.renene.2018.12.106>.
- [19] H. H. Al-Kaiyem, S. K.V, and S. I. U.-H. Gilani, "Mathematical analysis of the influence of the chimney height and collector area on the performance of a roof top solar chimney," *Energy Build.*, vol. 68, pp. 305–311, 2014, doi: <https://doi.org/10.1016/j.enbuild.2013.09.021>.
- [20] A. Nugroho and M. Ahmad, "Passive Cooling Performance of a Solar Chimney and Vertical Landscape Applications in Indonesian Terraced House," *J. Teknol.*, vol. 70, Oct. 2014, doi: 10.11113/jt.v70.3585.
- [21] J. Zhang, A. Gupta, and J. Baker, "Effect of Relative Humidity on the Prediction of Natural Convection Heat Transfer Coefficients," *Heat Transf. Eng.*, vol. 28, no. 4, pp. 335–342, 2007, doi: 10.1080/01457630601122823.
- [22] M. Krarti, "Chapter 6 - Integrated Design and Retrofit of Buildings," in *Optimal Design and Retrofit of Energy Efficient Buildings, Communities, and Urban Centers*, M. Krarti, Ed., Butterworth-Heinemann, 2018, pp. 313–384. doi: <https://doi.org/10.1016/B978-0-12-849869-9.00006-5>.
- [23] A. Zhivov et al., "Chapter 7 - Principles of air and contaminant movement inside and around buildings," in *Industrial Ventilation Design Guidebook (Second Edition)*, H. D. Goodfellow and R. Kosonen, Eds., Second Edition.Academic Press, 2020, pp. 245–370. doi: <https://doi.org/10.1016/B978-0-12-816780-9.00007-1>.
- [24] H. B. Awbi, "Ventilation of buildings: Second edition," *Vent. Build. Second Ed.*, pp. 1–522, Jun. 2003, doi: 10.4324/9780203634479.
- [25] K. E. Amori and S. W. Mohammed, "Experimental and numerical studies of solar chimney for natural ventilation in Iraq," *Energy Build.*, vol. 47, pp. 450–457, 2012, doi: <https://doi.org/10.1016/j.enbuild.2011.12.014>.





- [26] M. Bahwami, Class Lecture, Topic: “Natural Convection.” ENSC 388, Laboratoy for Alternative Energy Conversion. Simon Fraser University, Sep., 6, 2011.
- [27] H. K. Versteeg and W. Malalasekera, *An introduction to computational fluid dynamics : the finite volume method*, 2nd ed. Harlow, England: Pearson Education Ltd., 2007.
- [28] F. M. White, *Fluid Mechanics*, 7th Edition. in McGraw-Hill series in mechanical engineering. McGraw Hill, 2011.
- [29] W. Jeong and J. Seong, “Comparison of effects on technical variances of computational fluid dynamics (CFD) software based on finite element and finite volume methods,” *Int. J. Mech. Sci.*, vol. 78, pp. 19–26, 2014, doi: <https://doi.org/10.1016/j.ijmecsci.2013.10.017>.
- [30] Ansys®, *Ansys Fluent Theory*, Release 2021 R2. Canonsburg, U.S.A: ANSYS, Inc., 2021.
- [31] Ansys®, *ANSYS FLUENT 12.0 User's Guide*, Release 12.0. ANSYS, Inc., 2009.
- [32] J. C. DeBlois, M. M. Bilec, and L. A. Schaefer, “Design and zonal building energy modeling of a roof integrated solar chimney,” *Renew. Energy*, vol. 52, pp. 241–250, 2013, doi: <https://doi.org/10.1016/j.renene.2012.10.023>.
- [33] [CFD] *Pressure-Inlet Boundary Conditions*, (24 Juli 2020). Diakses: 12 Juni 2023. [Daring Video]. Tersedia pada: <https://www.youtube.com/watch?v=Er2j5Kq17as>.
- [34] BSN. 2011. SNI 6389-2011. *Konservasi energi selubung bangunan pada bangunan gedung*. Badan Standarisasi Nasional, Jakarta, 2011.
- [35] Badan Meteorologi, Klimatologi, dan Geofisika. *Pusat Database-BMKG*. 2023. Retrieved from <https://dataonline.bmkg.go.id>.
- [36] M. Lee, G. Park, C. Park, and C. Kim, “Improvement of Grid Independence Test for Computational Fluid Dynamics Model of Building Based on Grid Resolution,” *Dvances Civ. Eng.*, vol. 2020, p. 11, 2020, doi: <https://doi.org/10.1155/2020/8827936>.
- [37] ASHRAE, *Ventilation for Acceptable Indoor Air Quality*. in Standards 62.1. Atlanta: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
- [38] S. Willis, “Avoiding or minimising the use of air conditioning-a research report from the EnREI programme.,” 1995.

