

DAFTAR PUSTAKA

- [1] United Nations Environment Programme, 2023 Global Status Report for Buildings and Construction: Beyond foundations - Mainstreaming sustainable solutions to cut emissions from the buildings sector. United Nations Environment Programme, 2024. doi: 10.59117/20.500.11822/45095.
- [2] “Data-Driven Molecular Engineering of Solar-Powered Windows.” Accessed: Feb. 10, 2025. [Online]. Available: <https://xplore.staging.ieee.org/document/8291776>
- [3] “PETA JALAN PENYELENGGARAAN & PEMBINAAN BANGUNAN GEDUNG HIJAU.” Accessed: Feb. 07, 2025. [Online]. Available: https://ciptakarya.pu.go.id/admin/assets/upload/file/laporan/2024/10/10/205512_PETA%20JALAN%20PENYELENGGARAAN%20PEMBINAAN%20OBGH_OKT%202024.pdf
- [4] S. Roumi, R. A. Stewart, F. Zhang, and M. Santamouris, “Unravelling the relationship between energy and indoor environmental quality in Australian office buildings,” *Sol. Energy*, vol. 227, pp. 190–202, Oct. 2021, doi: 10.1016/j.solener.2021.08.064.
- [5] Sentagi Utami et al., *MENUJU BANGUNAN ZERO ENERGY DI INDONESIA*. Gadjah Mada University Press.
- [6] M. Asif, G. Naeem, and M. Khalid, “Digitalization for sustainable buildings: Technologies, applications, potential, and challenges,” *J. Clean. Prod.*, vol. 450, p. 141814, Apr. 2024, doi: 10.1016/j.jclepro.2024.141814.
- [7] I. Asadi, N. Mahyuddin, and P. Shafigh, “A review on indoor environmental quality (IEQ) and energy consumption in building based on occupant behavior,” *Facilities*, vol. 35, no. 11/12, pp. 684–695, Aug. 2017, doi: 10.1108/F-06-2016-0062.
- [8] Q. Wu, N. Li, X. Cai, Y. He, and Y. Du, “Impact of indoor environmental quality (IEQ) factors on occupants’ environmental perception and satisfaction in hospital wards,” *Build. Environ.*, vol. 245, p. 110918, Nov. 2023, doi: 10.1016/j.buildenv.2023.110918.
- [9] P. Firma and M. Siregar, “Feasibility Study of Micro Hydropower Plants in High-Rise Buildings in Indonesia By Utilizing A Working Scheme for AC Condenser Water Pumps (Ventilation & Air Conditioning System),” *IOP Conf. Ser. Mater. Sci. Eng.*, vol. 807, no. 1, p. 012016, Mar. 2020, doi: 10.1088/1757-899X/807/1/012016.



- [10] Faridah, S. S. Utami, R. J. Yanti, Sunarno, E. Nurjani, and R. Wijaya, "OPTIMAL THERMAL SENSORS PLACEMENT BASED ON INDOOR THERMAL ENVIRONMENT CHARACTERIZATION BY USING CFD MODEL," *J. Appl. Eng. Sci.*, vol. 19, no. 3, Art. no. 3, Apr. 2021, doi: 10.5937/jaes0-28985.
- [11] Y. Jiang, S. Yin, J. Dong, and O. Kaynak, "A Review on Soft Sensors for Monitoring, Control, and Optimization of Industrial Processes," *IEEE Sens. J.*, vol. 21, no. 11, pp. 12868–12881, Jun. 2021, doi: 10.1109/JSEN.2020.3033153.
- [12] J. E. B. Monton, J. T. Dellosa, and R. N. Mendoza, "IoT-Based Energy Monitoring System (IBEMS) for Optimizing Power Consumption in University Facilities," in 2024 8th International Artificial Intelligence and Data Processing Symposium (IDAP), Sep. 2024, pp. 1–6. doi: 10.1109/IDAP64064.2024.10710764.
- [13] "Multi-terminal monitoring system for campus ecological environment based on sensor network | IEEE Conference Publication | IEEE Xplore." Accessed: Jun. 17, 2025. [Online]. Available: <https://ieeexplore.ieee.org/document/7250226>
- [14] T. Parkinson, A. Parkinson, and R. de Dear, "Continuous IEQ monitoring system: Context and development," *Build. Environ.*, vol. 149, pp. 15–25, Feb. 2019, doi: 10.1016/j.buildenv.2018.12.010.
- [15] M. Wang, R. Zhang, Y. Zhang, H. Dong, and Y. Wang, "An Indoor Environmental Monitoring system Based on ESPDuino for Green Buildings," in 2018 IEEE International Conference on Information and Automation (ICIA), Aug. 2018, pp. 1658–1663. doi: 10.1109/ICInfA.2018.8812446.
- [16] "An Artificial Intelligent and Big Data Research Platform Based on Jupyter Notebook," in Proceedings of 2020 the 10th International Workshop on Computer Science and Engineering, WCSE, 2020. doi: 10.18178/wcse.2020.06.070.
- [17] B. S. Kim, S. H. Lee, Y. R. Lee, Y. H. Park, and J. Jeong, "Design and Implementation of Cloud Docker Application Architecture Based on Machine Learning in Container Management for Smart Manufacturing," *Appl. Sci.*, vol. 12, no. 13, Art. no. 13, Jan. 2022, doi: 10.3390/app12136737.
- [18] M. J. Varas-Muriel, R. Fort, M. I. Martínez-Garrido, A. Zornoza-Indart, and P. López-Arce, "Fluctuations in the indoor environment in Spanish rural churches and their effects on heritage conservation: Hygro-thermal and CO2 conditions monitoring," *Build. Environ.*, vol. 82, pp. 97–109, Dec. 2014, doi: 10.1016/j.buildenv.2014.08.010.



- [19] P. Ciccarelli and C. Faulkner, *Networking Foundations: Technology Fundamentals for IT Success*. John Wiley & Sons, 2006.
- [20] “Front End vs Back End - Difference Between Application Development - AWS,” Amazon Web Services, Inc. Accessed: Jun. 17, 2025. [Online]. Available: <https://aws.amazon.com/compare/the-difference-between-frontend-and-backend/>
- [21] D. Gourley and B. Totty, *HTTP: The Definitive Guide*. O’Reilly Media, Inc., 2002.
- [22] “A Comprehensive Guide to MQTT and MQTT 5.” Accessed: Jun. 17, 2025. [Online]. Available: <https://www.hivemq.com/resources/download-mqtt-ebook/>
- [23] “MQTT - The Standard for IoT Messaging.” Accessed: Jun. 25, 2025. [Online]. Available: <https://mqtt.org/>
- [24] Ian Craggs, “MQTT Vs. HTTP for IoT.” [Online]. Available: <https://www.hivemq.com/blog/mqtt-vs-http-protocols-in-iiot/>
- [25] B. Wukkadada, K. Wankhede, R. Nambiar, and A. Nair, “Comparison with HTTP and MQTT In Internet of Things (IoT),” in *2018 International Conference on Inventive Research in Computing Applications (ICIRCA)*, Jul. 2018, pp. 249–253. doi: 10.1109/ICIRCA.2018.8597401.
- [26] “Cluster | EMQX Docs.” Accessed: Jun. 25, 2025. [Online]. Available: <https://docs.emqx.com/en/emqx/latest/deploy/cluster/introduction.html>
- [27] E. Team, “How EMQX under the new architecture of Mria + RLOG achieves 100M MQTT connections,” www.emqx.com. Accessed: Jun. 25, 2025. [Online]. Available: <https://www.emqx.com/en/blog/how-emqx-5-0-achieves-100-million-mqtt-connections>
- [28] “APIs: A Strategy Guide[Book].” Accessed: Jun. 25, 2025. [Online]. Available: <https://www.oreilly.com/library/view/apis-a-strategy/9781449321628/>
- [29] P. Gupta and I. O. Prabha. M, “A Survey of Application Layer Protocols for Internet of Things,” in *2021 International Conference on Communication information and Computing Technology (ICCICT)*, Jun. 2021, pp. 1–6. doi: 10.1109/ICCICT50803.2021.9510140.
- [30] João Angelo, “Auth0 | Authentication Survival Guide,” Auth0. Accessed: Jun. 25, 2025. [Online]. Available: <https://auth0.com/resources/ebooks/authentication-survival-guide/thankyou>



- [31] Sebastián Peyrott, “Auth0 | JWT Handbook,” Auth0. Accessed: Jun. 25, 2025. [Online]. Available: <https://auth0.com/resources/ebooks/jwt-handbook/thankyou>
- [32] “Go for Web Development - The Go Programming Language.” Accessed: Jun. 25, 2025. [Online]. Available: <https://go.dev/solutions/webdev>
- [33] “What is Python? Executive Summary,” Python.org. Accessed: Jun. 26, 2025. [Online]. Available: <https://www.python.org/doc/essays/blurb/>
- [34] “Applications for Python,” Python.org. Accessed: Jun. 26, 2025. [Online]. Available: <https://www.python.org/about/apps/>
- [35] Abraham Silberschatz, Henry F. Korth, and S. Sudarshan, Database System Concepts - 7th edition, Seventh Edition. McGraw-Hill Education.
- [36] C. Coronel and S. Morris, Database Systems: Design, Implementation, & Management. Cengage Learning, 2018.
- [37] N. Ekker, File & Object Storage For Dummies, 10th ed. John Wiley & Sons, Inc., 2016.
- [38] “What is Object Storage? - Cloud Object Storage Explained - AWS,” Amazon Web Services, Inc. Accessed: Jun. 25, 2025. [Online]. Available: <https://aws.amazon.com/what-is/object-storage/>
- [39] “What Is Containerization? | IBM.” Accessed: Jun. 25, 2025. [Online]. Available: <https://www.ibm.com/think/topics/containerization>
- [40] H. Kopetz and W. Steiner, Real-Time Systems: Design Principles for Distributed Embedded Applications. Cham: Springer International Publishing, 2022. doi: 10.1007/978-3-031-11992-7.
- [41] Muhammad Faiq Irbab, “Penerapan Soft Sensor Menggunakan XGBoost untuk Pemantauan Distribusi Temperatur dan Kelembapan Relatif Dalam Ruang Secara Real-Time,” Universitas Gadjah Mada, Yogyakarta, 2025.
- [42] “Website Response Times,” Nielsen Norman Group. Accessed: Jul. 05, 2025. [Online]. Available: <https://www.nngroup.com/articles/website-response-times/>

