

## DAFTAR PUSTAKA

- [1] F. D. K. Ching, B. Onouye, and D. Zuberbuhler, "Building Structures Illustrated," p. 2, 2014.
- [2] 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, 2017, doi: 10.1108/F-06-2016-0062.
- [3] Y. Al Horr, M. Arif, A. Kaushik, A. Mazroei, M. Katafygiotou, and E. Elsarrag, "Occupant productivity and office indoor environment quality: A review of the literature," *Build Environ*, vol. 105, pp. 369–389, Aug. 2016, doi: 10.1016/J.BUILDENV.2016.06.001.
- [4] A. C. K. Lai, K. W. Mui, L. T. Wong, and L. Y. Law, "An evaluation model for indoor environmental quality (IEQ) acceptance in residential buildings," *Energy Build*, vol. 41, no. 9, pp. 930–936, Sep. 2009, doi: 10.1016/J.ENBUILD.2009.03.016.
- [5] Y. Al Horr, M. Arif, A. Kaushik, A. Mazroei, M. Katafygiotou, and E. Elsarrag, "Occupant productivity and office indoor environment quality: A review of the literature," *Build Environ*, vol. 105, pp. 369–389, Aug. 2016, doi: 10.1016/J.BUILDENV.2016.06.001.
- [6] X. Cao, X. Dai, and J. Liu, "Building energy-consumption status worldwide and the state-of-the-art technologies for zero-energy buildings during the past decade," *Energy Build*, vol. 128, pp. 198–213, Sep. 2016, doi: 10.1016/j.enbuild.2016.06.089.
- [7] N. Jain *et al.*, "Building performance evaluation: Balancing energy and indoor environmental quality in a UK school building," *Building Services Engineering Research and Technology*, vol. 41, no. 3, pp. 343–360, May 2020, doi: 10.1177/0143624419897397.
- [8] T. Sharmin, M. Gül, X. Li, V. Ganev, I. Nikolaidis, and M. Al-Hussein, "Monitoring building energy consumption, thermal performance, and indoor air quality in a cold climate region," *Sustain Cities Soc*, vol. 13, pp. 57–68, Oct. 2014, doi: 10.1016/J.SCS.2014.04.009.
- [9] K. Lawal and H. N. Rafsanjani, "Trends, benefits, risks, and challenges of IoT implementation in residential and commercial buildings," *Energy and Built Environment*, vol. 3, no. 3, pp. 251–266, Jul. 2022, doi: 10.1016/J.ENBENV.2021.01.009.
- [10] T. M. Connolly and C. E. Begg, *Database systems : a practical approach to design, implementation and management*, 6th ed. Harlow: Pearson, 2015.



- [11] I. Molyneaux, *The art of application performance testing*, 2nd ed. Sebastopol: O'Reilly Media, Inc., 2014.
- [12] D. Nichter, *Efficient MySQL Performance Best Practices and Techniques*, 1st ed. O'Reilly Media, 2021.
- [13] A. Mahdavi and M. Taheri, "An ontology for building monitoring," *J Build Perform Simul*, vol. 10, no. 5–6, pp. 499–508, Nov. 2017, doi: 10.1080/19401493.2016.1243730.
- [14] W. S. Jang, W. M. Healy, and M. J. Skibniewski, "Wireless sensor networks as part of a web-based building environmental monitoring system," *Autom Constr*, vol. 17, no. 6, pp. 729–736, Aug. 2008, doi: 10.1016/J.AUTCON.2008.02.001.
- [15] Institute of Electrical and Electronics Engineers, "IoT Solution based on MQTT Protocol for Real-Time Building Monitoring," *IEEE 23rd International Symposium on Consumer Technologies (ISCT)*, 2019.
- [16] V. Tanasiev, H. Necula, and G. Darie, "Web service-based monitoring system for smart management of the buildings," p. 26, Dec. 2016, doi: 10.1109/ICEPE.2016.7781296.
- [17] S. A. Kim, D. Shin, Y. Choe, T. Seibert, and S. P. Walz, "Integrated energy monitoring and visualization system for Smart Green City development: Designing a spatial information integrated energy monitoring model in the context of massive data management on a web based platform," *Autom Constr*, vol. 22, pp. 51–59, Mar. 2012, doi: 10.1016/J.AUTCON.2011.07.004.
- [18] D. Lee, G. Cha, and S. Park, "A study on data visualization of embedded sensors for building energy monitoring using BIM," *International Journal of Precision Engineering and Manufacturing*, vol. 17, no. 6, pp. 807–814, Jun. 2016, doi: 10.1007/s12541-016-0099-4.
- [19] M. Valinejadshoubi, O. Moselhi, A. Bagchi, and A. Salem, "Development of an IoT and BIM-based automated alert system for thermal comfort monitoring in buildings," *Sustain Cities Soc*, vol. 66, p. 102602, Mar. 2021, doi: 10.1016/J.SCS.2020.102602.
- [20] "Healthy Buildings vs Green Buildings: What's the Difference?" Accessed: Jul. 13, 2023. [Online]. Available: <https://learn.kaiterra.com/en/resources/healthy-buildings-vs-green-buildings-difference>



- [21] J. G. Allen *et al.*, *THE 9 FOUNDATIONS OF A HEALTHY BUILDING*. Harvard T.H. Chan School of Public Health, 2017. [Online]. Available: [www.ForHealth.org](http://www.ForHealth.org).
- [22] Y. Geng *et al.*, “An Intelligent IEQ Monitoring and Feedback System: Development and Applications,” *Engineering*, vol. 18, pp. 218–231, Nov. 2022, doi: 10.1016/J.ENG.2021.09.017.
- [23] S. Roumi, R. A. Stewart, F. Zhang, and M. Santamouris, “Unravelling the relationship between energy and indoor environmental quality in Australian office buildings,” *Solar Energy*, vol. 227, pp. 190–202, Oct. 2021, doi: 10.1016/J.SOLENER.2021.08.064.
- [24] T. S. Larsen *et al.*, “IEQ-Compass – A tool for holistic evaluation of potential indoor environmental quality,” *Build Environ*, vol. 172, p. 106707, Apr. 2020, doi: 10.1016/J.BUILDENV.2020.106707.
- [25] L. Danza *et al.*, “A weighting procedure to analyse the Indoor Environmental Quality of a Zero-Energy Building,” *Build Environ*, vol. 183, p. 107155, Oct. 2020, doi: 10.1016/J.BUILDENV.2020.107155.
- [26] T. Catalina and V. Iordache, “IEQ assessment on schools in the design stage,” *Build Environ*, vol. 49, no. 1, pp. 129–140, Mar. 2012, doi: 10.1016/J.BUILDENV.2011.09.014.
- [27] *Thermal Environmental Conditions for Human Occupancy*. American Society of Heating, Refrigerating and Air Conditioning Engineers, 2010. [Online]. Available: [www.ashrae.org](http://www.ashrae.org)
- [28] S. Carlucci, F. Causone, F. De Rosa, and L. Pagliano, “A review of indices for assessing visual comfort with a view to their use in optimization processes to support building integrated design,” *Renewable and Sustainable Energy Reviews*, vol. 47, pp. 1016–1033, Jul. 2015, doi: 10.1016/J.RSER.2015.03.062.
- [29] M. Santamouris, *Environmental Design of Urban Buildings: An Integrated Approach*. Earthscan, 2006.
- [30] S. Kubba, “Indoor Environmental Quality,” *Handbook of Green Building Design and Construction*, pp. 353–412, 2017, doi: 10.1016/B978-0-12-810433-0.00007-1.
- [31] “2. What are the main factors in indoor air quality?” Accessed: Jul. 26, 2023. [Online]. Available: [https://ec.europa.eu/health/scientific\\_committees/opinions\\_layman/en/indoor-air-pollution/1-3/2-determining-factors.htm](https://ec.europa.eu/health/scientific_committees/opinions_layman/en/indoor-air-pollution/1-3/2-determining-factors.htm)



- [32] “IAQ Standards and Guidelines (EPA and ASHRAE Standard).” Accessed: Jul. 27, 2023. [Online]. Available: <https://foobot.io/guides/iaq-standards-and-guidelines.php>
- [33] M. González-Torres, L. Pérez-Lombard, J. F. Coronel, I. R. Maestre, and D. Yan, “A review on buildings energy information: Trends, end-uses, fuels and drivers,” *Energy Reports*, vol. 8, pp. 626–637, Nov. 2022, doi: 10.1016/J.EGYR.2021.11.280.
- [34] L. Pérez-Lombard, J. Ortiz, and C. Pout, “A review on buildings energy consumption information,” *Energy Build*, vol. 40, no. 3, pp. 394–398, Jan. 2008, doi: 10.1016/J.ENBUILD.2007.03.007.
- [35] M. Singh and S. S.L., “Implementation of Room Automation With Cloud Based Monitoring System,” in *Proceedings of the Second International Conference on Inventive Systems and Control (ICISC 2018)*, 2018.
- [36] “MQTT - The Standard for IoT Messaging.” Accessed: Aug. 31, 2023. [Online]. Available: <https://mqtt.org/>
- [37] G. C. Hillar, *MQTT Essentials - A Lightweight IoT Protocol*. Birmingham: Packt Publishing, 2017. [Online]. Available: [www.PacktPub.com](http://www.PacktPub.com)
- [38] D. Kalinsky and R. Kalinsky, “Introduction to I2C,” 2001. [Online]. Available: <http://www.embedded.com/story/OEG20010718S0073?printable=true>
- [39] Christian. Floerkemeier, M. Langheinrich, E. Fleisch, and F. Mattern, “The Internet of Things,” Springer, 2008, pp. 270–273.
- [40] D. Gourley and B. Totty, *HTTP: The Definitive Guide Edition: 1*. O’Reilly Media, 2022.
- [41] C. Coronel and S. Morris, *Database Systems: Design, Implementation, & Management*, 12th ed. Cengage Learning, 2016. [Online]. Available: [www.cengage.com/highered](http://www.cengage.com/highered)
- [42] C. Coronel and S. Morris, *Database Systems: Design, Implementation, & Management*, 14th ed. Cengage Learning, 2023. [Online]. Available: [www.cengage.com/highered](http://www.cengage.com/highered)
- [43] “PostgreSQL vs MySQL - Difference Between Relational Database Management Systems (RDBMS) - AWS.” Accessed: Jan. 08, 2024. [Online]. Available: <https://aws.amazon.com/compare/the-difference-between-mysql-vs-postgresql/>



- [44] A. D. Kurniawan, J. Nurjaman, M. Zainal Arifin, and F. Fasya, “PERAN ANALIS SISTEM DALAM PENGEMBANGAN PERANGKAT LUNAK,” *Jurnal Ilmiah Penelitian dan Penerapan Teknik Informatika dan Sistem Informasi*, vol. 5, no. 1, pp. 3–4, Mar. 2016, doi: <https://doi.org/10.52771/bangkitindonesia.v5i1.63>.
- [45] Q. Li and Y.-L. Chen, *Modeling and Analysis of Enterprise and Information Systems: From Requirements to Realization*. Springer Berlin Heidelberg, 2009.
- [46] “PostgreSQL: About.” Accessed: Aug. 04, 2023. [Online]. Available: <https://www.postgresql.org/about/>
- [47] “Stack Overflow Developer Survey 2022.” Accessed: Aug. 04, 2023. [Online]. Available: <https://survey.stackoverflow.co/2022/#most-popular-technologies-database-prof>
- [48] “PostgreSQL: Documentation: 8.1: Data Types.” Accessed: Aug. 04, 2023. [Online]. Available: <https://www.postgresql.org/docs/8.1/datatype.html#DATATYPE-SERIAL>
- [49] Y. Deng, P. Frankl, and Z. Chen, “Testing Database Transaction Concurrency,” in *Proceedings of the 18th IEEE International Conference on Automated Software Engineering (ASE’03)*, Brooklyn: Department of Computer and Information Science Polytechnic University Brooklyn, 2003.
- [50] M. Kleppmann, *Designing data-intensive applications: the big ideas behind reliable, scalable, and maintainable systems*, 1st ed. Sebastopol: O’Reilly Media, 2018. [Online]. Available: [www.wowebook.org](http://www.wowebook.org)
- [51] D. Nichter, *Efficient MySQL Performance Best Practices and Techniques*, 1st ed. O’Reilly Media, 2021.
- [52] “Latency versus Response Time | Scalable Developer.” Accessed: Sep. 18, 2023. [Online]. Available: <https://scalabledeveloper.com/posts/latency-versus-response-time/>
- [53] M. Kleppmann, *Designing data-intensive applications: the big ideas behind reliable, scalable, and maintainable systems*, 1st ed. Sebastopol: O’Reilly Media, 2018. [Online]. Available: [www.wowebook.org](http://www.wowebook.org)

