

DAFTAR PUSTAKA

- [1] “ASHRAE Terminology - Terminology.Presentation.” Accessed: Oct. 22, 2023. [Online]. Available: <https://terminology.ashrae.org/?letter=B>
- [2] V. Loftness, B. Hakkinen, O. Adan, and A. Nevalainen, “Elements that contribute to healthy building design,” *Environ Health Perspect*, vol. 115, no. 6, pp. 965–970, Jun. 2007, doi: 10.1289/ehp.8988.
- [3] “How Much of Your Life Do You Spend in Buildings? - GreenBuildingAdvisor.” Accessed: Jul. 10, 2023. [Online]. Available: <https://www.greenbuildingadvisor.com/article/how-much-of-your-life-do-you-spend-in-buildings>
- [4] M. Khoshbakht, Z. Gou, X. Xie, B. He, and A. Darko, “Green building occupant satisfaction: Evidence from the Australian higher education sector,” *Sustainability (Switzerland)*, vol. 10, no. 8, Aug. 2018, doi: 10.3390/su10082890.
- [5] M. Esfandiari, S. M. Zaid, M. A. Ismail, and A. Aflaki, “Influence of *indoor* environmental quality on work productivity in green office buildings: A review,” *Chem Eng Trans*, vol. 56, pp. 385–390, 2017, doi: 10.3303/CET1756065.
- [6] N. H. Sandberg, J. S. Næss, H. Brattebø, I. Andresen, and A. Gustavsen, “Large potentials for energy saving and greenhouse gas emission reductions from large-scale deployment of zero emission building technologies in a national building stock,” *Energy Policy*, vol. 152, May 2021, doi: 10.1016/j.enpol.2020.112114.
- [7] “GREEN BUILDING COUNCIL INDONESIA | GBCI.” Accessed: Oct. 22, 2023. [Online]. Available: <https://gbcindonesia.org/netzero>
- [8] C. A. Roulet, F. Flourentzou, F. Foradini, P. Bluysen, C. Cox, and C. Aizlewood, “Multicriteria analysis of health, comfort and energy efficiency in buildings,” *Building Research and Information*, vol. 34, no. 5, pp. 475–482, Sep. 2006, doi: 10.1080/09613210600822402.
- [9] H. Chojer, P. T. B. S. Branco, F. G. Martins, M. C. M. Alvim-Ferraz, and S. I. V. Sousa, “Development of low-cost *indoor* air quality monitoring devices: Recent advancements,” *Science of the Total Environment*, vol. 727. Elsevier B.V., Jul. 20, 2020. doi: 10.1016/j.scitotenv.2020.138385.
- [10] 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.

- [11] W. Abrahamse, L. Steg, C. Vlek, and T. Rothengatter, “A review of intervention studies aimed at household energy conservation,” *J Environ Psychol*, vol. 25, no. 3, pp. 273–291, 2005, doi: 10.1016/j.jenvp.2005.08.002.
- [12] “ISO 9241-11:2018(en), Ergonomics of human-system interaction — Part 11: *Usability*: Definitions and concepts.” Accessed: Aug. 01, 2023. [Online]. Available: <https://www.iso.org/obp/ui/#iso:std:iso:9241:-11:ed-2:v1:en>
- [13] Q. Huang and M. Syndicus, “Development of a microcontroller-based interactive monitoring system for *indoor* environmental quality,” 2022.
- [14] C. Ceccarini, S. Mirri, and C. Prandi, “Designing Interfaces to Display Sensor Data: A Case Study in the Human-Building Interaction Field Targeting a University Community,” *Sensors*, vol. 22, no. 9, May 2022, doi: 10.3390/s22093361.
- [15] O. Taiwo, A. E. Ezugwu, O. N. Oyelade, and M. S. Almutairi, “Enhanced Intelligent Smart Home Control and Security System Based on Deep Learning Model,” *Wirel Commun Mob Comput*, vol. 2022, 2022, doi: 10.1155/2022/9307961.
- [16] M. A. Khan *et al.*, “Smart Android Based Home Automation System Using Internet of Things (IoT),” *Sustainability (Switzerland)*, vol. 14, no. 17, Sep. 2022, doi: 10.3390/su141710717.
- [17] D. Wall, P. McCullagh, I. Cleland, and R. Bond, “Development of an Internet of Things solution to monitor and analyse *indoor* air quality,” *Internet of Things (Netherlands)*, vol. 14, Jun. 2021, doi: 10.1016/j.iot.2021.100392.
- [18] C. Stolojescu-Crisan, C. Crisan, and B. P. Butunoi, “An iot-based smart home automation system,” *Sensors*, vol. 21, no. 11, Jun. 2021, doi: 10.3390/s21113784.
- [19] C. Baedeker *et al.*, “Interactive design to encourage energy efficiency in offices: Developing and testing a user-centered building management system based on a living lab approach,” *Sustainability (Switzerland)*, vol. 12, no. 17, Sep. 2020, doi: 10.3390/SU12176956.
- [20] 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.



- [21] B. Dumnić *et al.*, “Smart Energy Manager for Energy Efficient Buildings,” *IEEE EUROCON 2019: 18th International Conference on Smart Technologies*, 2019.
- [22] A. Hodrien and T. Fernando, “A Review of Post-Study and Post-Task Subjective Questionnaires to Guide Assessment of System *Usability*,” 2021.
- [23] J. R. Lewis, “IBM Computer *Usability* Satisfaction Questionnaires: Psychometric Evaluation and Instructions for Use,” *Int J Hum Comput Interact*, vol. 7, no. 1, pp. 57–78, 1995, doi: 10.1080/10447319509526110.
- [24] J. Sauro and J. R. Lewis, *Quantifying the user experience: Practical statistics for user research*. Morgan Kaufmann, 2016.
- [25] D. R. Olsen, R. B. Arthur, and SIGCHI (Group : U.S.), *Proceedings of the 27th International Conference on Human Factors in Computing Systems : April 4-9, 2009, Boston, MA, USA*. ACM Press, 2009.
- [26] J. Kirakowski, “The Use of Questionnaire methods for *Usability* Assessment Background notes on the SUMI questionnaire,” 1994.
- [27] T. S. Tullis and J. N. Stetson, “A Comparison of Questionnaires for Assessing Website *Usability* Measuring UX View project A Comparison of Questionnaires for Assessing Website *Usability*,” 2006. [Online]. Available: <https://www.researchgate.net/publication/228609327>
- [28] A. Bangor, P. T. Kortum, and J. T. Miller, “An empirical evaluation of the system *usability* scale,” *Int J Hum Comput Interact*, vol. 24, no. 6, pp. 574–594, Aug. 2008, doi: 10.1080/10447310802205776.
- [29] F. D. Davis, “Perceived usefulness, perceived ease of use, and user acceptance of information technology,” *MIS Q*, vol. 13, no. 3, pp. 319–339, 1989, doi: 10.2307/249008.
- [30] A. Lund, “Measuring *Usability* with the USE Questionnaire,” 2001. [Online]. Available: <https://www.researchgate.net/publication/230786746>
- [31] “Green Building |US EPA.” Accessed: Jul. 17, 2023. [Online]. Available: <https://archive.epa.gov/greenbuilding/web/html/index.html>
- [32] 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.
- [33] A. Janes, “Effective Dashboard Design,” *Cutter IT Journal*, vol. 26, no. 1, pp. 17–24, Jan. 2013, [Online]. Available: www.cutter.com
- [34] “Our mission - World Green Building Council.” Accessed: Aug. 01, 2023. [Online]. Available: <https://worldgbc.org/about-us/our-mission/>



- [35] “GREEN BUILDING COUNCIL INDONESIA | GBCI.” Accessed: Aug. 01, 2023. [Online]. Available: <https://www.gbcindonesia.org/greens/existing>
- [36] “ASHRAE Terminology - Terminology.Presentation.” Accessed: Aug. 03, 2023. [Online]. Available: <https://terminology.ashrae.org/>
- [37] N. Mirzaei, H. Kamelnia, S. G. Islami, S. Kamyabi, and S. N. Assadi, “The Impact of *Indoor* Environmental Quality of Green Buildings on Occupants’ Health and Satisfaction: A systematic review,” *J Community Health Res*, Mar. 2020, doi: 10.18502/jchr.v9i1.2574.
- [38] 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. Emerald Group Publishing Ltd., pp. 684–695, 2017. doi: 10.1108/F-06-2016-0062.
- [39] Green Building Council Indonesia, *Summary GREENSHIP Existing Building V1.1*, vol. 1.1. 2016.
- [40] Standar Nasional Indonesia Badan Standardisasi Nasional Konservasi energi pada sistem pencahayaan, “SNI 03-6197-2000,” 2000.
- [41] S. Harrington, M. Mulville, and S. Stravoravdis, “The relationship between ventilation rates in schools and the *indoor* airborne transmission potential of COVID-19,” *Architectural Engineering and Design Management*, Oct. 2023, doi: 10.1080/17452007.2023.2263519.
- [42] “Basic Information about Carbon Monoxide (CO) *Outdoor* Air Pollution | US EPA.” Accessed: Nov. 17, 2023. [Online]. Available: <https://www.epa.gov/co-pollution/basic-information-about-carbon-monoxide-co-outdoor-air-pollution>
- [43] “What are volatile organic compounds (VOCs)? | US EPA.” Accessed: Nov. 17, 2023. [Online]. Available: <https://www.epa.gov/indoor-air-quality-iaq/what-are-volatile-organic-compounds-vocs>
- [44] “Particulate Matter (PM) Basics | US EPA.” Accessed: Nov. 17, 2023. [Online]. Available: <https://www.epa.gov/pm-pollution/particulate-matter-pm-basics#PM>
- [45] P. Winata, I. Kurniawan, W. Hardjoprakoso, and Andini, “Panduan Sekolah Sehat dan Nyaman di Masa Pandemi dan Pasca Pandemi COVID-19,” 2021.
- [46] “Types of Data in Statistics: Numerical vs Categorical Data | University of Adelaide.” Accessed: Aug. 05, 2023. [Online]. Available: <https://online.adelaide.edu.au/blog/types-of-data>



- [47] S. M. Musa, C. Akujuobi, M. N. O. Sadiku, A. E. Shadare, C. M. Akujuobi, and R. G. Perry, "DATA VISUALIZATION," *International Journal of Engineering Research And Advanced Technology*, [Online]. Available: <https://www.researchgate.net/publication/311597028>
- [48] V. Sharma and T. A. Kumar, "A Study on User Interface and User Experience Design and Its Tools", [Online]. Available: <https://www.iso.org/obp/ui/#iso:std:iso:9241:-11:ed-1:v1:en>.
- [49] I. Fajfar, *Start Programming Using HTML, CSS, and JavaScript*, 1st ed. Chapman and Hall/CRC, 2015.
- [50] "What is *Next.js*? | Learn *Next.js*." Accessed: Jul. 26, 2023. [Online]. Available: <https://nextjs.org/learn/foundations/about-nextjs/what-is-nextjs>
- [51] T. Tullis and B. Albert, *Measuring the User Experience: Collecting, Analyzing, and Presenting Usability Metrics*, 3rd ed. Morgan Kaufmann, 2023.
- [52] Jeff. Sauro, *A practical guide to measuring usability : 72 answers to the most common questions about quantifying the usability of websites and software*. Measuring Usability LCC, 2010.
- [53] J. Sauro, "10 Things To Know About The Single Ease Question (SEQ) – MeasuringU." Accessed: Sep. 28, 2023. [Online]. Available: <https://measuringu.com/seq10/>
- [54] J. Sauro and E. Kindlund, "How Long Should a Task Take? Identifying Specification Limits for Task Times in *Usability* Tests." [Online]. Available: <http://www.measuringusability.com/zcalc.htm>
- [55] S. F. O'Brien and Q. L. Yi, "How do I interpret a confidence interval?," *Transfusion (Paris)*, vol. 56, no. 7, pp. 1680–1683, Jul. 2016, doi: 10.1111/trf.13635.
- [56] A. Hamed Taherdoost and K. Lumpur, "Validity and Reliability of the Research Instrument; How to Test the Validation of a Questionnaire/Survey in a Research," 2016. [Online]. Available: <https://ssrn.com/abstract=3205040>
- [57] M. T. Puth, M. Neuhäuser, and G. D. Ruxton, "Effective use of Pearson's product-moment correlation coefficient," *Animal Behaviour*, vol. 93. Academic Press, pp. 183–189, 2014. doi: 10.1016/j.anbehav.2014.05.003.
- [58] R. Alroobaea and P. J. Mayhew, "How many participants are really enough for *usability* studies?," in *Proceedings of 2014 Science and Information Conference, SAI 2014*, Institute of Electrical and Electronics Engineers Inc., Oct. 2014, pp. 48–56. doi: 10.1109/SAI.2014.6918171.



- [59] J. Sauro, “Using Task Ease (SEQ) to Predict Completion Rates and Times.” Accessed: Aug. 31, 2023. [Online]. Available: <https://measuringu.com/seq-prediction/>
- [60] C. Author, N. Ghodrati, M. Samari, and M. Wira Mohd Shafiei, “Green Buildings Impacts on Occupants’ Health and Productivity,” 2012.
- [61] P. N. Hoang *et al.*, “The Influence of Lighting, Noise, and Temperature on the Academic Performance of Students amid Covid-19 Pandemic,” *International Journal of Learning, TeACHing and Educational Research*, vol. 21, no. 9, pp. 415–440, Sep. 2022, doi: 10.26803/ijlter.21.9.23.
- [62] S. Mann and G. Singh, “Traffic noise monitoring and modelling — an overview,” *Environmental Science and Pollution Research*, vol. 29, no. 37. Springer Science and Business Media Deutschland GmbH, pp. 55568–55579, Aug. 01, 2022. doi: 10.1007/s11356-022-21395-4.
- [63] 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.
- [64] W. Ye *et al.*, “Design with modeling techniques,” *Industrial Ventilation Design Guidebook: Volume 2: Engineering Design and Applications, Second Edition*, pp. 109–183, Jan. 2021, doi: 10.1016/B978-0-12-816673-4.00008-0.
- [65] H. P. Tuniki, A. Jurelionis, and P. Fokaides, “A review on the approACHes in analysing energy-related occupant behaviour research,” *Journal of Building Engineering*, vol. 40, p. 102630, Aug. 2021, doi: 10.1016/J.JOBE.2021.102630.
- [66] C. S. Canbay, A. Hepbasli, and G. Gokcen, “Evaluating performance indices of a shopping centre and implementing HVAC control principles to minimize energy usage,” *Energy Build*, vol. 36, no. 6, pp. 587–598, Jun. 2004, doi: 10.1016/J.ENBUILD.2004.01.031.
- [67] A. Chevalier, A. C. Maury, and N. Fouquereau, “The influence of the search complexity and the familiarity with the website on the subjective appraisal of aesthetics, mental effort and usability,” *Behaviour and Information Technology*, vol. 33, no. 2, pp. 117–132, 2014, doi: 10.1080/0144929X.2013.819936.
- [68] J. Lacaille, “An Influence Gauge to Detect and Explain Relations between Measurements and a Performance Indicator.”
- [69] “Tooltip Guidelines.” Accessed: Nov. 17, 2023. [Online]. Available: <https://www.nngroup.com/articles/tooltip-guidelines/>



- [70] Green Building Council Indonesia, “Summary GREENSHIP Existing Building V1.1,” Divisi Rating dan Teknologi Green Building Council Indonesia, Jun. 2016.
- [71] C. N. Knaflitz, *Storytelling with Data: A Data Visualization Guide for Business Professionals*, 1st ed. Hoboken, NJ: Wiley, 2015.
- [72] “Qualitative Data Visualization: The *Gauge* Diagram.” Accessed: Oct. 05, 2023. [Online]. Available: <https://stephanieevergreen.com/gauge-diagram/>
- [73] “Data Tables: Four Major User Tasks.” Accessed: Nov. 17, 2023. [Online]. Available: <https://www.nngroup.com/articles/data-tables/>
- [74] “Visual Indicators to Differentiate Items in a List.” Accessed: Nov. 17, 2023. [Online]. Available: <https://www.nngroup.com/articles/visual-indicators-differentiators/>

