

DAFTAR PUSTAKA

- [1] H. C. Indrani, "Analisis Kinerja Akustik pada Ruang Auditorium Multifungsi," *Dimensi Interior*, vol.5, p. 11, 2007.
- [2] S. Inoue, K. Sugino, M. Katou, and H. Imaizumi, "Speech transmission performance and the effect of acoustical remedies in a dome," *Applied Acoustics*, vol. 70, no. 1, pp. 221–230, Jan. 2009, doi: 10.1016/j.apacoust.2007.12.004.
- [3] Y. Yani, "Penilaian Kualitas Akustik Masjid Raudhaturrahman Padang Tiji Menggunakan Simulasi Ecotect," *JPI*, vol. 2, no. 2, pp. 357–367, Nov. 2020, doi: 10.22373/tadabbur.v2i2.88.
- [4] D. Reinhardt, W. Martens, and L. Miranda, "Sonic Domes – Solving Acoustic Performance of Curved Surfaces by Interfacing Parametric Design, Structural Engineering and Acoustic Analysis," presented at the CAADRIA 2013: Open Systems, Singapore, Singapore, 2013, pp. 529–538. doi: 10.52842/conf.caadria.2013.529.
- [5] H. G. Qadrina, R. Rahim, and A. Kusno, "Noise Reduction Effect of Porous Material for Auditorium Application Case Study: Auditorium Prof. Mattulada, Hasanuddin University, Indonesia," p. 9, 2014.
- [6] A. R. Putra and R. D. Nazhar, "Peranan Material Interior dalam Pengendalian Akustik Auditorium Bandung Creative Hub," *wcr*, vol. 6, no. 2, pp. 71–76, Nov. 2020, doi: 10.34010/wcr.v6i2.4123.
- [7] H. C. Indrani, "Optimasi Desain Interior untuk Peningkatan Kualitas Akustik Ruang Auditorium Multifungsi," *Dimensi Teknik Arsitektur*, vol. 35, no. 2, p. 11, 2007.
- [8] A. Miśkiewicz, T. Rogala, T. Rościszewska, T. Rudzki, and T. Fidecki, "Concert Hall Sound Clarity: A Comparison of Auditory Judgments and Objective Measures," *Archives of Acoustics*, vol. 37, no. 1, pp. 41–46, Mar. 2012, doi: 10.2478/v10168-012-0006-7.
- [9] L. Labia, L. Shtrepi, and A. Astolfi, "Improved Room Acoustics Quality in Meeting Rooms: Investigation on the Optimal Configurations of Sound-Absorptive and Sound-Diffusive Panels," *Acoustics*, vol. 2, no. 3, pp. 451–473, Jun. 2020, doi: 10.3390/acoustics2030025.
- [10] Z. Rachman, *Gangguan Akustik pada ruang IFFS Studio Fakultas Kehutanan UGM*. Yogyakarta, 2022.
- [11] R. Priandi, "Pengaruh Letak Titik Fokus Kelengkungan Kubah terhadap Kinerja Akustik Ruang Masjid," vol. 1, p. 10, 2012.
- [12] S. S. Utami, "An Acoustical Analysis of Domes Coupled to Rooms, with Special Application to the Darussoloh Mosque, in East Java, Indonesia," p. 146.
- [13] Z. S. Sü Gül, "Acoustical Impact of Architectonics and Material Features in the Lifespan of Two Monumental Sacred Structures," *Acoustics*, vol. 1, no. 3, pp. 493–516, Jul. 2019, doi: 10.3390/acoustics1030028.



- [14] H. H. Eldien and M. A. Mujeebu, "The Impact of Dome-Shape on the Acoustic Performance -A Case Study of a Mosque in Saudi Arabia," p. 52, 2020.
- [15] M. Cairolì, "The architectural acoustic design for a multipurpose auditorium: Le Serre hall in the Villa Erba Convention Center," *Applied Acoustics*, vol. 173, p. 107695, Feb. 2021, doi: 10.1016/j.apacoust.2020.107695.
- [16] H. Alibaba and M. Ozdeniz, "Acoustical Renovation of University Multipurpose Halls: The Case of Lala Mustafa Paşa Hall," *Sustainability*, vol. 11, no. 5, p. 1397, Mar. 2019, doi: 10.3390/su11051397.
- [17] M. Barron and S. Kissner, "A possible acoustic design approach for multipurpose auditoria suitable for both speech and music," *Applied Acoustics*, vol. 115, pp. 42–49, Jan. 2017, doi: 10.1016/j.apacoust.2016.08.018.
- [18] "Sound Absorbing Acoustic Plaster Systems & Finishes | BASWA Phon, BASWA DTG, BASWA Natural." <https://www.baswana.com/products> (accessed Feb. 23, 2023).
- [19] I. A. D. Astuti, "Pengembangan Alat Eksperimen Cepat Rambat Bunyi dalam Medium Udara dengan menggunakan Metode *Time of Light* (ToF) dan Berbantuan *Software* Audacity," 2016.
- [20] A. Yasid, "Pengaruh Frekuensi Gelombang Bunyi terhadap Perilaku Lalat Rumah," *Jurnal Pembelajaran Fisika*, 2016.
- [21] Bagus Tris Atmaja, "The Physiology, Mechanism, and Nonlinearities of Hearing," 2019, doi: 10.13140/RG.2.2.24895.97444.
- [22] F. Frongia, L. Forti, and L. Arru, "Sound perception and its effects in plants and algae," *Plant Signaling & Behavior*, vol. 15, no. 12, p. 1828674, Dec. 2020, doi: 10.1080/15592324.2020.1828674.
- [23] D. Rossalia, "Perubahan Respon Pendengaran Karena Pemakaian Earphone," *JBP*, vol. 21, no. 1, p. 20, Apr. 2019, doi: 10.20473/jbp.v21i1.2019.20-31.
- [24] "Room Acoustics," *ODEON Room Acoustics Software*. <https://odeon.dk/learn/articles/room-acoustics/> (accessed Sep. 14, 2022).
- [25] M. Barron, *Auditorium acoustics and architectural design*, 2nd ed. London ; New York: Spon Press/Taylor & Francis, 2010.
- [26] D. Bosnyak, N. S. A. A. Mahmoud, T. Wagenmann, A. Carballeira, and L. G. Agustina, *The Book of Acoustics : Making people happy at work*. Vulkan, 2021.
- [27] M. McGrory, D. C. Cirac, O. Gaussen, and D. Cabrera, "Sound absorption coefficient measurement: Re-examining the relationship between impedance tube and reverberant room methods," p. 9, 2012.
- [28] M. Deaconu, A. C. Toma, and L. I. Dragasanu, "Comparative study of sound absorption coefficient determination using FEM method and experimental tests on Kundt's tube," p. 7, 2017.
- [29] R. J. Yanti, "Analisis Pengaruh Variasi Material Dinding Dan Geometri Langit-Langit Terhadap Kejelasan Percakapan Di Ruang Kelas Menggunakan CATT-Acoustic," *Skripsi, Jurusan Teknik Fisika, Fakultas Teknik, Universitas Gadjah Mada, Yogyakarta*, 2014.



- [30] W. F. M. Sari and N. Avisena, "Simulasi Reverberation Time Sound System pada Bangunan SC Universitas Islam Negeri (UIN) Maulana Malik Ibrahim Malang," vol. 2, no. 1, 2009.
- [31] T. J. Cox, "A Tutorial on Scattering and Diffusion Coefficients for Room Acoustic Surfaces," *ACTA ACUSTICA UNITED WITH ACUSTICA*, vol. 92, p. 16, 2006.
- [32] M. Long, "Fundamentals of Acoustics," in *Architectural Acoustics*, Elsevier, 2014, pp. 39–79. doi: 10.1016/B978-0-12-398258-2.00002-7.
- [33] A. Alpkocak and M. Sis, "Computing Impulse Response of Room Acoustics Using the Ray-Tracing Method in Time Domain," *Archives of Acoustics*, vol. 35, no. 4, pp. 505–519, Dec. 2010, doi: 10.2478/v10168-010-0039-8.
- [34] J. Hak, "Measuring Impulse Responses Using Dirac," *Acoustics Engineering*, 2007.
- [35] S. Campanini and A. Farina, "A new Audacity feature: room objective acoustical parameters calculation module," p. 6.
- [36] L. L. Beranek, "Analysis of Sabine and Eyring equations and their application to concert hall audience and chair absorption," *The Journal of the Acoustical Society of America*, vol. 120, no. 3, pp. 1399–1410, Sep. 2006, doi: 10.1121/1.2221392.
- [37] L. E. Kinsler, Ed., *Fundamentals of acoustics*, 4th ed. New York: Wiley, 2000.
- [38] M. Long, *Architectural acoustics*. Amsterdam ; Boston: Elsevier/Academic Press, 2006.
- [39] S. Indrawati, V. D. Arinie, A. Nuryaqin, G. Prajitno, Suyatno, and L. Yuwana, "The Analysis of Room Acoustic Parameters of Karaoke Rooms in Surabaya," *J. Phys.: Conf. Ser.*, vol. 1951, no. 1, p. 012036, Jun. 2021, doi: 10.1088/1742-6596/1951/1/012036.
- [40] Suyatno, S. Indrawati, A. N. Pratiwi, and G. Prajitno, "Evaluation of Acoustic parameters at the ITS Science Tower Auditorium as a Multi-function Room," *J. Phys.: Conf. Ser.*, vol. 1951, no. 1, p. 012038, Jun. 2021, doi: 10.1088/1742-6596/1951/1/012038.
- [41] *Acoustics, measurement of room acoustic parameters. Part 1: : Performance spaces (ISO 3382-1:2009)*. London: BSI Standards, 2009, 2012.
- [42] M. Boehm and W. Probst, "Application of the Speech Transmission Index (STI) for planning communication areas".
- [43] "Sound intelligibility - STI | TOA." <https://www.toa.jp/soundoh/vid/sti/> (accessed Sep. 17, 2022).
- [44] A. P. O. Carvalho, "Relations between rapid speech transmission index (RASTI) and other acoustical and architectural measures in churches," *Applied Acoustics*, vol. 58, no. 1, pp. 33–49, Sep. 1999, doi: 10.1016/S0003-682X(98)00071-1.
- [45] S. S. Utami, J. Sarwono, and R. F. Fela, *Kajian Metode Pengukuran Akustik Ruang*, 1st ed. Yogyakarta: Gadjah Mada University Press, 2016.
- [46] H. Kuttruff, *Room acoustics*, Sixth edition. Boca Raton: CRC Press/Taylor & Francis Group, 2017.



- [47] Nuryadi, T. Dewi Astuti, E. Sri Utami, and M. Budiantara, “Dasar-Dasar Statistik Penelitian.” SIBUKU MEDIA, 2017.
- [48] T. Yamamoto, “As Built Drawing, Colour Scheme 7th Floor.” Nov. 10, 2021.
- [49] “PMP21-1 Class 1 Measurement microphone sets,” *PLACID Measurement microphones*. <https://placidinstruments.com/product/placid-pmp21-1-measurement-microphone-sets/> (accessed Jan. 19, 2023).
- [50] “Norsonic - Nor145 - Sound Level Meters - Sound Analyser by Norsonic AS.” <https://www.environmental-expert.com/products/norsonic-model-nor145-sound-analyser-494924> (accessed Jan. 19, 2023).
- [51] “Sound Calibrator Nor1256.” https://web2.norsonic.com/product_single/sound-calibrator-nor1256/ (accessed Jan. 19, 2023).
- [52] “Power Amplifier Nor280.” https://web2.norsonic.com/product_single/power-amplifier-nor280/ (accessed Jan. 20, 2023).

