UNIVERSITAS
GADJAH MADA
SIMULASI MODAL ANALYSIS KOWANGAN BERBAHAN BAMBU APUS DENGAN VARIASI KONDISI SLUMPRING
Lawrence Garth Andrie, Dr. Indraswari Kusumaningtyas, S.T., M.Sc.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Abdulloh, M.S. (2017). Kajian Organologi Musik Bundengan di Wonosobo. Skripsi S1, Jurusan Etnomusikologi, Fakultas Seni Pertunjukan, Institut Seni Indonesia, Surakarta.

Ahmad, Y. (2023). Studi Sifat Keterbasahan dan Kecepatan Rambat Air Pada Material Slumpring. Tesis S2, Departemen Teknik Mesin dan Industri, Universitas Gadjah Mada, Yogyakarta.

Avitabile, P. (2001). Experimental Modal Analysis: A Simple Non-Mathematical Presentation. *Sound and Vibration Magazine,* 35(1), 20-31.

Eslaminejad, A., Ziejewski, M. & Karami, G., 2019. An experimental–numerical modal analysis for the study of shell-fluid interactions in a clamped hemispherical shell. *Applied Acoustic*, 152(0003-682X), pp. 110-117.

Fahmi, S.B. (2020). Simulasi Modal Analysis Kowangan dengan Variasi Jumlah Bilah Bambu Menggunakan ABAQUS. Skripsi S1, Departemen Teknik Mesin dan Industri, Universitas Gadjah Mada, Yogyakarta.

Fletcher, N.H. & Rossing, T.D. (1991). The Physics of Musical Instruments. 1st ed. New York: Springer-Verlag.

Ghifari, F.B. (2026). Pengaruh Kondisi Kering dan Basah terhadap Nilai Modulus Elastisitas Lengkung Slumpring Bambu Apus (Gigantochloa Apus) untuk Alat Musik Bundengan. Skripsi S1, Departemen Teknik Mesin dan Industri, Universitas Gadjah Mada, Yogyakarta.

Imaduddin, M.R. (2025). Studi Eksperimental Karakterisasi Getaran Resonator Kowangan di Setiap Titik Persilangan Anyaman dengan Metode Modal Analysis. Skripsi S1, Departemen Teknik Mesin dan Industri, Universitas Gadjah Mada, Yogyakarta.

Irvine, T. (2000). An Introduction to Frequency Response Functions. Vibrationdata. https://www.vibrationdata.com/tutorials_alt/frf.pdf

Li, H., Zhang, H., Qiu, Z., Su, J., Wei, D., Lorenzo, R., Yuan, C., Liu, H., & Zhou, C. (2020). Mechanical properties and stress strain relationship models for bamboo scrimber. *Journal of Renewable Materials*, 8(1), 13–27. https://doi.org/10.32604/JRM.2020.09341

Logan, D.L., 2007. A First Course in The Finite Element Method. Boston: PWS Engineering.

Nurmadina, Nugroho, N., & Bahtiar, E.T. (2017). Structural grading of Gigantochloa apus bamboo based on its flexural properties. *Construction and Building Materials*, 157, 1173–1189. https://doi.org/10.1016/J.CONBUILDMAT.2017.09.170

UNIVERSITAS
GADJAH MADA
SIMULASI MODAL ANALYSIS KOWANGAN BERBAHAN BAMBU APUS DENGAN VARIASI KONDISI SLUMPRING
Lawrence Garth Andrie, Dr. Indraswari Kusumaningtyas, S.T., M.Sc.

Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Parikesit, G.O.F. (2020). Why the bundengan is a personal musical instrument. INTER-NOISE and NOISE-CON Congress and Conference Proceedings, 261(3), 3785–3791.

Parikesit, G.O.F. & Kusumaningtyas, I. (2023). Why bundengan musicians always soak their instruments before playing. Proceeding of Meetings on Acoustics, 52, 035010. https://doi.org/10.1121/2.0001888

Park, J., Park, M., Choi, D.S., Jung, H.M., & Hwang, S.W. (2020). Finite element-based simulation for edgewise compression behavior of corrugated paperboard for packaging of agricultural products. *Applied Sciences*, 10(19). https://doi.org/10.3390/APP10196716

Reissner, E., 1955. On axisymmetric vibrations of shallow spherical shells. *Applied Mathematics*, 13, 279-290.

Simanungkalit, L.C. (2019). Analisis Karakteristik Getaran Kowangan dengan Menggunakan Metode Experimental Modal Analysis. Skripsi S1, Departemen Teknik Nuklir dan Teknik Fisika, Universitas Gadjah Mada, Yogyakarta.

Vardaxis, N. (2021). *VTAF 01-Sound in Buildings and Environment 3. Waves in solids*.

Wirabuana, J.A. (2024). Rancang Bangun dan Pengujian Alat Uji Lengkung Slumpring Dengan Aktuator Motor Stepper. Skripsi S1, Departemen Teknik Mesin dan Industri, Universitas Gadjah Mada, Yogyakarta.