

DAFTAR PUSTAKA

- Aránguiz, R., Urra, L., Okuwaki, R., & Yagi, Y. (2018). Development and application of a tsunami fragility curve of the 2015 tsunami in Coquimbo, Chile. *Natural Hazards and Earth System Sciences*, 18(8), 2143–2160.
- Arum Narwastu, Senot Sangadji, Rida Handiana Devi, & Hendramawat Aski Safarizki. (2024). Analisis kerapuhan struktur gedung Dinas Pertanian Kabupaten Pacitan dengan static adaptive pushover. *PADURAKSA: Jurnal Teknik Sipil Universitas Warmadewa*, 13(1), 89–96. <https://doi.org/10.22225/pd.13.1.7655.89-96>
- BMKG. (2024). *Laporan aktivitas seismik dan tsunami Indonesia tahun 2023–2024*. Badan Meteorologi, Klimatologi, dan Geofisika.
- BNPB. (2023). *Laporan tahunan penanggulangan bencana Indonesia 2023*. Badan Nasional Penanggulangan Bencana.
- Borrero, J. C., Sieh, K., Chlieh, M., & Synolakis, C. E. (2006). Tsunami inundation modeling for western Sumatra. *Proceedings of the National Academy of Sciences*, 103(52), 19673–19677. <https://doi.org/10.1073/pnas.0604069103>
- BPBD Sumbar. (2022). *Dokumen rencana kontinjensi bencana gempa bumi dan tsunami Provinsi Sumatera Barat*. Badan Penanggulangan Bencana Daerah Sumatera Barat.
- Daryono. (2020). *Seismic hazard in Sumatra and implications for disaster risk reduction*. Pusat Gempa Bumi dan Tsunami BMKG.
- Fauzan, Agista, G. A., Syandriaji, D., Al Jauhari, Z., & Suwarso, D. B. (2025). Seismic vulnerability assessment of a hospital building with and without retrofitting using RC shear walls. *E3S Web of Conferences*, 604. <https://doi.org/10.1051/e3sconf/202560415003>
- FEMA (Federal Emergency Management Agency): *Guidelines for Design of Structures for Vertical Evacuation from Tsunamis* (2019). Federal Emergency Management Agency, Washington, D. C., ,Vol. 22, No. 1, 2000 pp25-43.
- Fitria, W., Guspari, O., Afriyani, S., Putra, R. T., & Misriani, M. (2024). Design of Non-Engineered Earthquake Resistant Housing in West Sumatera. *Journal of Civil Engineering and Planning (JCEP)*, 5(2), 226–237.

- Gautam, D., & Dong, Y. (2018). Multi-hazard vulnerability of structures and lifelines due to the 2015 Gorkha earthquake and 2017 central Nepal flash flood. *Journal of Building Engineering*, 17, 196–201.
- Hall, R. (2002). Cenozoic geological and plate tectonic evolution of SE Asia and the SW Pacific: Computer-based reconstructions, model and animations. *Journal of Asian Earth Sciences*, 20(4), 353–431. [https://doi.org/10.1016/S1367-9120\(01\)00069-4](https://doi.org/10.1016/S1367-9120(01)00069-4)
- Harith, N. S. H., Samir, S., & Ngui, M. F. T. (2024). Evaluation of Linear Elastic Dynamic Analysis Behavior on RC Buildings in Sabah Subjected to Moderate PGA. *Sustainable Engineering*, 1(1), 16–28. <https://doi.org/10.51200/susten.v1i1.5262>
- HAZUS. (2024). Hazus Earthquake Model Technical Manual. Washington, D. C.: Federal Emergency Management Agency.
- HAZUS. (2024). Hazus Tsunami Model Technical Guidance. Washington, D. C.: Federal Emergency Management Agency.
- Kohns, J., Stempniewski, L., & Stark, A. (2022). Fragility Functions for Reinforced Concrete Structures Based on Multiscale Approach for Earthquake Damage Criteria. *Buildings*, 12(8). <https://doi.org/10.3390/buildings12081253>
- Lay, T., Kanamori, H., Ammon, C. J., Nettles, M., Ward, S. N., Aster, R. C., ... Sipkin, S. (2005). The great Sumatra–Andaman earthquake of 26 December 2004. *Science*, 308(5725), 1127–1133. <https://doi.org/10.1126/science.1112250>
- Løvholt, F., Setiadi, N. J., Birkmann, J., Harbitz, C. B., Bach, C., Fernando, N., ... Kaiser, G. (2012). Tsunami risk reduction—Are we better prepared today than in 2004? *International Journal of Disaster Risk Reduction*, 1, 72–84. <https://doi.org/10.1016/j.ijdrr.2012.05.001>
- Mackie, K. R., & Stojadinović, B. (2005). *PACIFIC EARTHQUAKE ENGINEERING RESEARCH CENTER Fragility Basis for California Highway Overpass Bridge Seismic Decision Making*.
- McCaffrey, R. (2009). The tectonic framework of the Sumatran subduction zone. *Annual Review of Earth and Planetary Sciences*, 37(1), 345–366. <https://doi.org/10.1146/annurev.earth.031208.100212>
- Medina, S., Lizarazo-Marriaga, J., Estrada, M., Koshimura, S., Mas, E., & Adriano, B. (2019). Tsunami analytical fragility curves for the Colombian Pacific coast: A reinforced concrete

building example. *Engineering Structures*, 196.
<https://doi.org/10.1016/j.engstruct.2019.109309>

Mousavi, S. M. A. M., & Ersoy, S. (2024). The Role of Earthquake-Resistant Building Elements in Parametric Architecture Design; Balancing Aesthetics and Performance. *Journal of Technology in Architecture, Design and Planning*, 2(2), 109–120.

Philibosian, B., Sieh, K., Avouac, J. P., Natawidjaja, D. H., Chiang, H. W., Wu, C. C., ... Suwargadi, B. W. (2014). Rupture and variable recurrence intervals of the Sumatran megathrust from paleogeology of the 2010 Mentawai tsunami earthquake. *Journal of Geophysical Research: Solid Earth*, 119(1), 464–482.
<https://doi.org/10.1002/2013JB010719>

Rossetto, T., & Elnashai, A. (2005). A new analytical procedure for the derivation of displacement-based vulnerability curves for populations of RC structures. *Engineering Structures*, 27(3), 397–409. <https://doi.org/10.1016/j.engstruct.2004.11.002>

Satyabudhi, I., Triyono, R., & Lassa, J. (2011). *Disaster risk in Padang City: Earthquake and tsunami hazard assessment*. Padang Institute for Disaster Risk Reduction.

Shahjalal, M., Yahia, A. K. M., Morshed, A. S. M., & Tanha, N. I. (2024). Earthquake-resistant building design: innovations and challenges. *Global Mainstream Journal of Innovation, Engineering & Emerging Technology*, 3(04), 101–119.

Sieh, K., Natawidjaja, D. H., Meltzner, A. J., Shen, C. C., Cheng, H., Li, K. S., ... Suwargadi, B. W. (2008). Earthquake supercycles inferred from sea-level changes recorded in the corals of West Sumatra. *Science*, 322(5908), 1674–1678.
<https://doi.org/10.1126/science.1163589>

Silitonga, D. Z., & Imran, I. (2019). Penilaian kerentanan seismik pada jembatan box girder beton prategang menerus bentang majemuk eksisting melalui pengembangan kurva fragilitas analitik. *Jurnal Teoretis Dan Terapan Bidang Rekayasa Sipil*, 47–58.

Simanjuntak, T. O., & Barber, A. J. (1983). *A new tectonic model for the Indonesian region*. Geological Research and Development Centre.

SNI 1726:2019. “Tata Cara Perencanaan Ketahanan Gempa untuk Struktur Bangunan Gedung dan Non Gedung”.

SNI 1727:2020. “Beban Desain Minimum dan Kriteria terkait Bangunan”.

SNI 2847:2019. “Persyaratan Beton Struktural untuk Bangunan Gedung”.

Souki, E., Abdou, K., & Mehani, Y. (2024). DEVELOPMENT OF FRAGILITY CURVES FOR REINFORCED CONCRETE BUILDINGS. *Architecture and Engineering*, 9(2), 86–96. <https://doi.org/10.23968/2500-0055-2024-9-2-86-96>

Syamsidik, Lavigne, F., Paris, R., Grancher, D., & Hananto, N. (2017). Potential hazard and evacuation analysis of tsunami for Padang city, Indonesia. *Natural Hazards*, 87(2), 1075–1099. <https://doi.org/10.1007/s11069-017-2808-9>

UNDRR. (2020). *Human cost of disasters: An overview of the last 20 years (2000–2019)*. United Nations Office for Disaster Risk Reduction.

Waenpracha, S., Foytong, P., Suppasri, A., Tirapat, S., Thanasisathit, N., Maneekul, P., & Ornthammarath, T. (2023). Development of Fragility Curves for Reinforced-Concrete Building with Masonry Infilled Wall under Tsunami. *Advances in Civil Engineering*, 2023. <https://doi.org/10.1155/2023/8021378>

Waseso, A. B., Rarasati, A. D., Ashadi, H. W., & Haryanto, V. M. (2024). Feasibility Analysis Of The Provision Of Earthquake-Resistant Construction House (ERCH) Infrastructure With The Government And Business Entity Cooperation Scheme (GBECS). *Eduvest-Journal of Universal Studies*, 4(11), 10712–10724.

Widiyantoro, S., Gunawan, E., Muhari, A., Rawlinson, N., Mori, J., Hanifa, N. R., ... Cummins, P. (2020). Implications for megathrust earthquakes and tsunamis from seismic gaps south of Java, Indonesia. *Nature Communications*, 11, 5384. <https://doi.org/10.1038/s41467-020-19146-x>

Zalukhu, L. H., Anif, B., & Khadavi (2018). Evaluasi struktur berbasis kinerja terhadap beban gempa dengan analisa *pushover* (Studi kasus Rumah Sakit Ibu dan Anak Budhi Mulia, Pekanbaru). ejournal.bunghatta.ac.id.