

REFERENCES

- ACI Committee, 2020. *Seismic Design of Liquid-Containing Concrete Structures and Commentary (ACI 350.3-20)*, USA: American Concrete Institute.
- Banerji, P., 2004. *Tuned Liquid Dampers for Control of Earthquake Response*. Vancouver, B.C., Canada, 13th World Conference on Earthquake Engineering, Vancouver, B. C., Canada.
- Basañez, J. T. C. et al., March 2019. *A Thesis of Tuned Liquid Damper Design of A 40-Storey RC Structure*, Cebu City, Philippines: Cebu Institute of Technology University.
- Bridgestone, 2017. *Seismic Isolation Product Line-up*, Tokyo: Bridgestone Corporation.
- Carhoglu, A. I., 2022. Investigation of the Interaction of the Tank Structures Exposed To Earthquake with the Soil. *Hittite Journal of Science and Engineering*, 9(1), pp. 45-56.
- Computers & Structures Inc. America, 2024. *CSI America*. [Online] Available at: <https://www.csiamerica.com/software/SAP2000/25/ReleaseNotesSAP2000v2520.pdf> [Accessed 29 March 2024].
- Computers and Structures Inc. America, 2017. *CSI Knowledge Base*. [Online] Available at: <https://wiki.csiamerica.com/display/kb/Modeling+fluid-structure+interaction> [Accessed 16 2022].
- Cook, N. H. et al., 1959. *An Introduction to the Mechanics of Solids*. 1st ed. New York, Toronto, London: McGraw-Hill Book Company Inc..
- Cook, R. D. & Young, W. C., 1985. *Advanced Mechanics of Materials*. 1st ed. New York: Macmillan Publishing Company.
- CSI America, 2017. *SAP2000 Structural Analysis and Design - CSI Analysis Reference Manual*, United States of America: Computers and Structures Inc..
- Das, S. & Choudhury, S., 2017. Seismic response control by tuned liquid dampers for low-rise RC frame buildings. *Australian Journal of Structural Engineering*, 18(2), pp. 135-145.
- Davidson, S. S. & Kumar, A. S., 2018. Study on the Effect of Swimming Pool as Tuned Mass Damper. *International Journal of Engineering Research & Technology (IJERT)*, 6(06), pp. ISSN: 2278-0181.
- De Iuliis, M., L., P. & B., P., 2008. *Combined Control Strategy Base Isolation and Tuned Mass Damper: An Effectiveness Analysis of Its Application to Non-linear Benchmark Base Isolated Structure*. Beijing, China, The 14th World Conference on Earthquake Engineering.
- Dean, R. G. & Dalrymple, R. A., 1991. *Water Wave Mechanics for Engineers and Scientists*. Vol.2 ed. Singapore: World Scientific Publishing Co. Pte. Ltd..
- Erdem, R. T. & Gücüyen, E., 2024. Fluid Structure Interaction Analyses of Elevated Storage Tank under Seismic Load. *Comptes Rendus de L'Academie Bulgare des Sciences*, 77(5).



Fujino, Y. & Sun, L. M., 1993. Vibration Control by Multiple Tuned Liquid Dampers (MTLDs). *Journal of Structural Engineering*, Volume 119, pp. 3482-3502.

Fujino, Y., Sun, L., Pacheco, B. M. & Chaiseri, P., 1992. Tuned Liquid Damper (TLD) for Suppressing Horizontal Motion of Structures. *Journal of Engineering Mechanics*, Volume 118, pp. 2017-2030.

Housner, G. W., February 1963. The Dynamic Behavior of Water Tanks. *Bulletin of the Seismological Society of America*, 53(2), pp. 381-387.

Hutchings, S. J. & Mooney, W. D., 2021. The Seismicity of Indonesia and Tectonic Implications. *Geochemistry, Geophysics, Geosystems*, 22(9).

Hu, X., Zhao, Z., Weng, D. & Hu, D., March 2022. Design of a Pair of Isolated Tuned Liquid Dampers (ITLDs) and Application in Multi-Degree-Of-Freedom Structures. *International Journal of Mechanical Sciences, Elsevier*, Volume 217.

Malhotra, P. K., Wenk, T. & Wieland, M., 2010 August. Simple Procedure for Seismic Analysis of Liquid-Storage Tanks. *Structural Engineering International*, X(3), pp. 197-201.

Matteo, A. D., Furtmüller, T., Adam, C. & Pirrotta, A., 2018. Optimal Design of Tuned Liquid Column Dampers for Seismic Response Control of Base-Isolated Structures. *Acta Mech, Springer*, Volume 229, p. 437–454.

Mazzoni, S., 2022. *NGA-Subduction Portal: Ground-Motion Record Selection and Download*, The B. John Garrick Institute for the Risk Sciences: UCLA Natural Hazard Risks and Resiliency Research Center (NHR3).

Meskouris, K., 2000. *Structural Dynamics Models, Methods, Examples*. Berlin, Germany: Ernst & Sohn.

Mir, F. U. H. et al., 2024. *Sismic Fluid-Structure Interaction in Advanced Reactor Vessels: A First-Of-A-Kind Experimental Program*. Yokohama, 27th International Conference on Structural Mechanics in Reactor Technology.

Nascimbene, R., Fagà, E. & Moratti, M., 2024. Seismic Strengthening of Elevated Reinforced Concrete Tanks: Analytical Framework and Validation Techniques. *buildings*, 14(2254).

Novo, T. et al., 2012. *Tuned Liquid Dampers Simulation for Earthquake Response Control of Buildings*. Lisbon, Portugal, s.n.

Pacific Earthquake Engineering Research (PEER) Center, 2010. *PEER Ground Motion Database*, California: University of California Berkeley.

Putri, G. Z. & Setio, H. D., October 2019. *Pengaruh Variasi Viskositas Pada Rectangular Water Tank Tuned Liquid Damper Terhadap Respons Dinamik Struktur*. Padang, Sumatera Barat, 6th ACE Conference.

Ramdani, Y., 2023. *Tuned Liquid Damping System on Steel Frame Structures (in Indonesian: Sistem Peredam Cairan Terkendali (Tuned Liquid Damping) pada Struktur Portal Baja)*, Yogyakarta, Indonesia: PhD Thesis, Gadjah Mada University.



Ramdani, Y., Priyosulistyo, H., Sulistyo, D. & Triatmadja, R., 2023. The Damping Properties of A Steel Structural Model with A Box-Shaped Water Reservoir upon Top Floor. *International Journal of GEOMATE*, 24(101), pp. 33-42.

Rimal, H., Pradhan, P., Gautam, D. & Rupakhety, R., 2023. Seismic Fragility of Aging Elevated Water Tank with Smooth Bars Considering Soil Structure Interaction. *buildings*, 13(4).

Samanta, A. & Banerji, P., 2009. Structural Vibration Control Using Modified Tuned Liquid Dampers. *The IES Journal Part A: Civil & Structural Engineering*, 3(1), p. 14–27.

Samanta, A. & Banerji, P., 2011. Earthquake Vibration Control Using Sloshing Liquid Dampers in Building Structures. *Journal of Earthquake and Tsunami*, 6(1), p. 1250002.

Satyarno, I., 2025. *Karakteristik dan Penentuan Rekaman Gerak Tanah untuk Analisis Beban Gempa*. 1 ed. Yogyakarta: Gadjah Mada University Press.

Sun, L. M. & Fujino, Y., 1994. A Semi-Analytical Model for Tuned Liquid Damper (TLD) with Wave Breaking. *Journal of Fluids and Structures*, Volume 8, pp. 471-488.

Sun, L. M., Fujino, Y., Pacheco, B. M. & Chaiseri, P., 1992. Modelling of Tuned Liquid Damper (TLD). *Journal of Wind Engineering and Industrial Aerodynamics*, 41(44), pp. 1883-1894.

Timoshenko, S. & Goodier, J. N., 1951. *Theory of Elasticity*. 2nd ed. New York, Toronto, London: McGraw-Hill Book Company Inc..

Tsai, H.-C., 1995. The Effect of Tuned-Mass Dampers on The Seismic Response of Base-Isolated Structures. *International Journal of Solids and Structures*, 32(8-9), pp. 1195-1210.

Vafaei, M., Pabarja, A. & Alih, S. C., 2021. An Innovative Tuned Liquid Damper for Vibration Mitigation of Structures. *International Journal of Civil Engineering, Springer*, Volume 19, p. 1071–1090.

Wilson, E. L., 2000. Fluid-Structure Interaction. In: *Three Dimensional Static and Dynamic Analysis Of Structures*. Berkeley, California, USA: Computers and Structures, Inc., p. Chapter 23.

Xu, F., Xu, C., Naggar, M. H. E. & Du, X., 2025. Seismic Performance of Large Underground Water Tank Structures Considering Fluid–Structure Interaction. *buildings*, 15(2643).