

## REFERENCES

- AASHTO, 2011. *AASHTO Guide Specifications For LRFD Seismic Bridge Design 2nd Edition*. AASHTO, Washington D.C.
- AASHTO, 2012. *AASHTO LRFD bridge design Specification*. [online] *ProQuest Dissertations and Theses*. Washington DC: AASHTO. Available at: <<https://bit.ly/3qDFdFv>>.
- AASHTO, 2017. *AASHTO LRFD Bridge Design Specifications. Bridge Engineering Handbook: Fundamentals, Second Edition*, Washington DC: AASHTO.
- Ali Awaludin, Angga Fajar Setiawan, Satyarno, I., Wu Shuanglan and Haroki, Y., 2022. Finite Element Analysis of Bi-directional Shear Panel Damper with Square Hollow Section under Monotonic Loading. *Journal of the Civil Engineering Forum*, 8(May), pp.157–168.
- Amatya, N. and Anwar, N., 2020. Optimum span length for a PCI-girder expressway bridge. *Australian Journal of Civil Engineering*, [online] 00(00), pp.1–9. Available at: <<https://doi.org/10.1080/14488353.2020.1794298>>.
- ASCE, 2017. *Seismic Evaluation and Retrofit of Existing Buildings*. *Seismic Evaluation and Retrofit of Existing Buildings*. Virginia.
- ASCE/SEI 7-10, 2013. *Minimum Design Loads and Associated Criteria for Buildings and Other Structures*. *Structural Engineering Institute of the American Society of Civil Engineering, Reston*. AMERICAN SOCIETY OF CIVIL ENGINEERS, Reston, .
- ASCE, F., 2000. American Society of Civil Engineers, Fema 356 Prestandard and Commentary for the Seismic Rehabilitation of Building. *Rehabilitation*, (November).
- Badan Standardisasi Nasional Indonesia, 2016. *Perencanaan Jembatan Terhadap Beban Gempa SNI 2833*. pp.1–70.
- Berry, M.P. and Eberhard, M.O., 2008. PACIFIC EARTHQUAKE ENGINEERING Performance Modeling Strategies for Modern Reinforced Concrete Bridge Columns Performance Modeling Strategies for Modern Reinforced Concrete Bridge Columns. *Montana The Magazine Of Western History*, (April).
- Bhavani, B.D., Sandhya, K.J. and Manoj, M., 2018. Analysis of Pre-Stressed Flyover Elements. pp.2917–2923.
- Bowles, J., 1974. *Analytical and Computer Methods in Foundation Engineering*.
- Cao, V. V. and Ronagh, H.R., 2013. A model for damage analysis of concrete. *Advances in concrete construction*, 1(2), pp.187–200.
- Chen, Z., Ge, H. and Usami, T., 2006. Hysteretic Model of Stiffened Shear Panel

Dampers. *Journal of Structural Engineering*, 132(3), pp.478–483.

Darmawan, M.F., 2021. *PILE-SUPPORTED SLAB VIADUCT STRUCTURE BRACED WITH SHEAR PANEL DAMPER*. Universitas Gadjah Mada.

Dindar, A.A., Yalcin, C., Yüksel, E., Ozkaynak, H. and Buyukozturk, O., 2014. Development of Earthquake Energy Demand Spectra. *Earthquake Spectra (PREPRINT)*.

Emilidardi, A.M., Fajar, A.S., Awaludin, A., Satyarno, I. and Sunarso, M., 2022. Numerical Model of Finned Tubular Shear Panel Damper for Multi-direction Seismic Excitation. In: *Proceedings of the 5th International Conference on Sustainable Civil Engineering Structures and Construction Materials*. Singapore: Springer.

Filippou, F. and Mazzoni, S., 2010. *Concrete02 Material -- Linear Tension Softening*. [online] Available at: <[https://opensees.berkeley.edu/wiki/index.php/Concrete02\\_Material\\_-\\_Linear\\_Tension\\_Softening](https://opensees.berkeley.edu/wiki/index.php/Concrete02_Material_-_Linear_Tension_Softening)> [Accessed 27 Dec. 2021].

Filippou, F. and Mazzoni, S., 2012. *Steel01 Material*. [online] Available at: <[https://opensees.berkeley.edu/wiki/index.php/Steel01\\_Material](https://opensees.berkeley.edu/wiki/index.php/Steel01_Material)> [Accessed 27 Dec. 2022].

Filippou, F.C., Popov, E.P. and Bertero, V. V., 1983. *Effects of Bond Deterioration on Hysteretic Behavior of Reinforced Concrete Joints*.

Han, Q., Zhou, Y., Ou, Y. and Du, X., 2017. Seismic behavior of reinforced concrete sacrificial exterior shear keys of highway bridges. *Engineering Structures*, [online] 139, pp.59–70. Available at: <<http://dx.doi.org/10.1016/j.engstruct.2017.02.034>>.

Han, X., Kelleher, C.A., Warn, G.P. and Wagener, T., 2013. Identification of the Controlling Mechanism for Predicting Critical Loads in Elastomeric Bearings. *Journal of Structural Engineering*, 139(12), pp.1–12.

Javanmardi, A., Ibrahim, Z., Ghaedi, K., Benisi Ghadim, H. and Hanif, M.U., 2020. State-of-the-Art Review of Metallic Dampers: Testing, Development and Implementation. *Archives of Computational Methods in Engineering*, [online] 27(2), pp.455–478. Available at: <<https://doi.org/10.1007/s11831-019-09329-9>>.

Jemadu, L., 2020. *Selama 2020 Jumlah Gempa di Indonesia Turun Drastis*. [online] suara.com. Available at: <<https://www.suara.com/tekno/2020/12/30/001511/selama-2020-jumlah-gempa-di-indonesia-turun-drastis#:~:text=Selama 2020 telah terjadi sebanyak,11.515 dan 11.920 pada 2018.>> [Accessed 3 Jan. 2021].

Jiang, H., Li, S. and He, L., 2019. Experimental study on a new damper using combinations of viscoelastic material and low-yield-point steel plates. *Frontiers in Materials*, 6(May), pp.1–12.

- Kalkan, E. and Kunnath, S.K., 2007. Effective cyclic energy as a measure of seismic demand. *Journal of Earthquake Engineering*, 11(5), pp.725–751.
- Karbakhsh Ravari, A., Bin Othman, I., Binti Ibrahim, Z. and Ab-Malek, K., 2012. P- $\Delta$  and End Rotation Effects on the Influence of Mechanical Properties of Elastomeric Isolation Bearings. *Journal of Structural Engineering*, 138(6), pp.669–675.
- Kelly, J.M. and Konstantinidis, D.A., 2011. *Mechanics of Rubber Bearings for Seismic and Vibration Isolation Red Box Rules Are for Proof Stage Only. Delete Before Final Printing. Mechanics of Rubber Bearings for Seismic and Vibration Isolation*. [online] Available at: <[www.wiley.com/go/kelly](http://www.wiley.com/go/kelly)>.
- Kementerian Perhubungan Republik Indonesia, 2012. Peraturan Menteri Nomor 60 Tahun 2012 Tentang Persyaratan Teknis Jalur Kereta Api. *PM. 60 Tahun 2012*, pp.1–57.
- Kent, D.C. and Park, R., 1971. Flexural members with confined concrete. *Journal of the Structural Division*, 97(7), pp.1969–1990.
- Kurniawan Santoso, A., Sulisty, D., Awaludin, A., Fajar Setiawan, A., Satyarno, I., Purnomo, S. and Harry, I., 2022. Structural Systems Comparison of Simply Supported PSC Box Girder Bridge Equipped with Elastomeric Rubber Bearing and Lead Rubber Bearing. *Civil Engineering Dimension*, 24(1), pp.19–30.
- Liu, Y., Aoki, T. and Shimoda, M., 2013. Strain Distribution Measurement of a Shear Panel Damper Developed for Bridge Structure. *Journal of Structures*, 2013, pp.1–11.
- Long, X., Ma, Y., Zhou, Q. and Gui, S., 2022. Seismic performance assessment of isolated continuous girder bridge using endurance time analysis. *Structures*, [online] 42(May), pp.550–562. Available at: <<https://doi.org/10.1016/j.istruc.2022.05.107>>.
- Mebrahtom Gebrekirstos Mezgebo, 2015. *Estimation of Earthquake Input Energy, Hysteretic Energy and Its Distribution in MdoF Structures*. Syracuse University.
- Moehle, J.P. and Eberhard, M., 2000. *Bridge Engineering Handbook: Earthquake Damage to Bridges*. Boca Raton: CRC Press.
- Mohle, J. and Kunnath, S., 2012. *Reinforcing Steel Material*. [online] Available at: <[https://opensees.berkeley.edu/wiki/index.php/Reinforcing\\_Steel\\_Material](https://opensees.berkeley.edu/wiki/index.php/Reinforcing_Steel_Material)> [Accessed 2 Jul. 2022].
- Mosalam, K.M., Zareian, F., Taciroglu, E., Omrani, R., Mobasher, B., Liang, X. and Gunay, S., 2015. Guidelines for nonlinear seismic analysis of ordinary bridges: Version 2.0. *Ca15-2266*, (December), p.168.
- Ou, Y.C., Kurniawan, R.A., Kurniawan, D.P. and Nguyen, N.D., 2012. Plastic hinge length of circular reinforced concrete columns. *Computers and Concrete*, 10(6), pp.663–681.

- Pawirodikromo, W., 2012. *Seismologi Teknik & Rekayasa Kegempaan*. Yogyakarta: Pustaka Pelajar.
- Rahaie, A.R. and Fallah Nafari, S., 2013. A comparison between lumped and distributed plasticity approaches in the pushover analysis results of a pc frame bridge. *International Journal of Civil Engineering*, 11(4 A), pp.217–225.
- Rayakonsult, 2018a. *DED KA Bandara Kulon Progo*.
- Rayakonsult, 2018b. *DED KA Bandara Kulon Progo Yogyakarta*.
- Road, I.T.A. (BPJT), 2021. *Toll Road Operates*. [online] Available at: <<https://bpjt.pu.go.id/konten/progress/beroperasi>> [Accessed 15 Sep. 2021].
- Sabouri-Ghomi, S., Ventura, C.E. and Kharrazi, M.H., 2005. Shear Analysis and Design of Ductile Steel Plate Walls. *Journal of Structural Engineering*, 131(6), pp.878–889.
- Scott, B.D., 1980. Stress-Strain Relationships for Confined Concrete : Rectangular Sections. *PhD thesis, The University of Canterbury*, (February), p.120.
- Setiawan, A.F., 2018. *Development of High Seismic Performance Inegrated Bridge Pier Connected by Hysterical Damper*. *Journal of Chemical Information and Modeling*. Kyoto University.
- Setiawan, A.F., Darmawan, M.F., Yogatama, B.A., Satyarno, I. and Guntara, M., 2020. Seismic Performance Investigation of Bracing and Spd Application in Phc Pile As Viaduct Piers.
- Setiawan, A.F. and Takahashi, Y., 2018. a High Seismic Performance Concept of Integrated Bridge Pier With Triple Rc Columns Accompanied By Friction Damper Plus Gap. *Journal of Japan Society of Civil Engineers, Ser. A1 (Structural Engineering & Earthquake Engineering (SE/EE))*, 74(4), p.I\_131-I\_147.
- Sunardi, B., 2015. Percepatan Tanah Sintetis Kota Yogyakarta Berdasarkan Deagregasi Bahaya Gempa. *Jurnal Lingkungan Dan Bencana Geologi*, 6(3), pp.211–228.
- Tanaka, K. and Sasaki, Y., 2000. Hysteretic Performance of Shear Panel Dampers of Ultra Low- Yield-Strength Steel for Seismic Response Control of Buildings. pp.1–8.
- Thorburn, L.J., Kulak, G.. and Montgomery, C., 1983. *Analysis of Steel Plate Shear Walls*. Alberta.
- Xiang, N., Alam, M.S. and Li, J., 2019. Yielding Steel Dampers as Restraining Devices to Control Seismic Sliding of Laminated Rubber Bearings for Highway Bridges: Analytical and Experimental Study. *Journal of Bridge Engineering*, 24(11).
- Yuan, W., Guo, A. and Li, H., 2017. Seismic failure mode of coastal bridge piers



considering the effects of corrosion-induced damage. *Soil Dynamics and Earthquake Engineering*, [online] 93(August 2016), pp.135–146. Available at: <<http://dx.doi.org/10.1016/j.soildyn.2016.12.002>>.

Zhang, C., Aoki, T., Zhang, Q. and Wu, M., 2015. The performance of low-yield-strength steel shear-panel damper with without buckling. *Materials and Structures/Materiaux et Constructions*, 48(4), pp.1233–1242.

Zhang, C., Zhu, J., Wu, M., Yu, J. and Zhao, J., 2016. The lightweight design of a seismic low-yield-strength steel shear panel damper. *Materials*, 9(6).