UNIVERSITAS
GADJAH MADA
**Studi Eksperimen, Numeris, dan Semi Analitis Perangkat Peredam Eksternal Modifikasi Dinamis Metallic
Bar Yielding Passive Damper dengan Material BjTP 280**
Bintang Gunindra Aryandaru, Prof. Ir. Iman Satyarno, M.E., Ph.D.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Aghlara, R., Md Tahir, M., Adnan, A., Bahru, J., 2015. Jurnal Teknologi Full Paper COMPARATIVE STUDY OF EIGHT METALLIC YIELDING DAMPERS. Jurnal Teknologi (Sciences & Engineering) 77, 119–125.

Agustin, S., Shandy, S., Khalid, A., Fatharani, A., Rachma, I.N., Herlina, F., Heka, A.E., 2025. Mekanika Bahan. HEI Publishing.

American Institute of Steel Construction, 2016. Specification for Structural Steel Buildings.

Badan Standardisasi Nasional, 2017a. " Baja tulangan beton. SNI 2052:2017.

Badan Standardisasi Nasional, 2017b. Cara uji tarik logam.

Bathe, K.-J., 1996. Finite Element Procedures in Engineering Analysis. Prentice Hall, New Jersey.

Beer, F.P.., Johnston, E.Russell., DeWolf, J.T.., Mazurek, D.F.., 2015. Mechanics of Materials, 7th ed. McGraw-Hill Education, New York.

Belytschko, Ted., Moran, B.., Liu, W.Kam., 2000. Nonlinear Finite Element Analysis for Continua and Structures. John Wiley and Sons.

Bruneau, M., Uang, C.-M., Whittaker, A., 1998. Ductile Design of Steel Structures. McGraw-Hill, New York.

Burgos, R.B., Silva, L.E., 2023. Evaluation of the P-Δ (P-Delta) effect in columns and frames using the two-cycle method based on the solution of the beam-column differential equation. MethodsX. https://doi.org/10.1016/j.mex.2023.102248

Callister, W.D., Rethwisch, D.G., 2018. Materials Science and Engineering An Introduction, 10th ed. Hoboken, NJ.

Chaboche, J.L., 1986. Time-independent constitutive theories for cyclic plasticity. International Journalof Plasticity 2, 1–19.

Chen, W.-F., Han, D.-J., 2007. Plasticity for Structural Engineers. J. Ross Pub., Fort Lauderdale.

Studi Eksperimen, Numeris, dan Semi Analitis Perangkat Peredam Eksternal Modifikasi Dinamis Metallic
Bar Yielding Passive Damper dengan Material BjTP 280
Bintang Gunindra Aryandaru, Prof. Ir. Iman Satyarno, M.E., Ph.D.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Chen, Z.-P., Huang, J., Wang, B., 2025. Self-centring SMA-based U-shaped damper: simulation, parametric study and discussion. Urban Resilience and Earthquake Engineering 1. https://doi.org/10.1080/30656680.2025.2520818

Cheraghi, K., TahamouliRoudsari, M., Kiasat, S., 2023. Numerical and analytical investigation of U-shape dampers and its effect on steel frames. Structures 55, 498–509. https://doi.org/10.1016/j.istruc.2023.06.037

Cheraghi, Kambiz, TahamouliRoudsari, M., Kiasat, S., Cheraghi, Kaveh, 2024. Numerical study of metallic dampers' effect on seismic performance of concrete frames. Asian Journal of Civil Engineering 25, 2431–2441. https://doi.org/10.1007/s42107-023-00917-6

Chrisopoulus, C., Filiatrault, A., Bartero, V. V., 2006. Principles of Passive Supplemental Damping and Seismic Isolation [WWW Document]. IUSS Press, Pavia, 480 p. - References - Scientific Research Publishing. URL https://www.scirp.org/reference/referencespapers?referenceid=2378830 (diakses 3.8.26).

Constantinou, M.C., Soong, T.T., Dargush, G.F., 1998. Passive Energy Dissipation Systems for Structural Design and Retrofit Monograph Series. MCEER, New York.

Cook, R.D., Malkus, D.S., Plesha, M.E., 1989. Concepts and Applications of Finite Element Analysis, 3th ed. John Wiley and Sons.

Dassault Systèmes Simulia Corp., 2015. Abaqus/CAE User's Guide.

De Borst, R., Crisfield, M.A., Remmers, J.J.C., Verhoosel, C. V., 2012. Non-Linear Finite Element Analysis of Solids and Structures, 2nd ed. John Wiley and Sons, Chichester.

Díaz, C., Victoria, M., Martí, P., Querin, O.M., 2011. FE model of beam-to-column extended end-plate joints. J. Constr. Steel Res. 67, 1578–1590. https://doi.org/10.1016/j.jcsr.2011.04.002

Dowling, N.E., 2013. Mechanical Behavior of Materials, 4th ed. Pearson Education, Virginia.

UNIVERSITAS
GADJAH MADA
Studi Eksperimen, Numeris, dan Semi Analitis Perangkat Peredam Eksternal Modifikasi Dinamis Metallic Bar Yielding Passive Damper dengan Material BjTP 280
Bintang Gunindra Aryandaru, Prof. Ir. Iman Satyarno, M.E., Ph.D.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

European Committee for Standardization, 2005. EN 1993-1-8: Eurocode 3: Design of steel structures - Part 1-8: Design of joints.

Federal Emergency Management Agency, 2007. Interim Testing Protocols for Determining the Seismic Performance Characteristics of Structural and Nonstructural Components. 461.

Federal Emergency Management Agency, 2000. FEDERAL EMERGENCY MANAGEMENT AGENCY FEMA 356 / November 2000 PRESTANDARD AND COMMENTARY FOR THE SEISMIC REHABILITATION OF BUILDINGS.

Fujino, Y., Siringoringo, D.M., Kikuchi, M., Kasai, K., Kashima, T., 2019. Seismic Monitoring of Seismically Isolated Bridges and Buildings in Japan-Case Studies and Lessons Learned. Seismic Structural Health Monitoring 407–447.

Gere, J.M., Timoshenko, S.P., 2000. Mekanika Bahan, 4th ed. Erlangga, Jakarta.

Ghaedi, K., Ibrahim, Z., Javanmardi, A., 2018. A new metallic bar damper device for seismic energy dissipation of civil structures, dalam: IOP Conference Series: Materials Science and Engineering. Institute of Physics Publishing. https://doi.org/10.1088/1757-899X/431/12/122009

Ghandil, M., Tajmir Riahi, H., Behnamfar, F., 2025. A displacement-based procedure for seismic design of structures controlled by new metallic-yielding pistonic damper. Eng. Struct. 336, 120355. https://doi.org/10.1016/j.engstruct.2025.120355

Hai, L., Wang, Y., Ban, H., Li, G., Du, X., 2023. A simplified prediction method on Chaboche isotropic/kinematic hardening model parameters of structural steels. Journal of Building Engineering 68. https://doi.org/10.1016/j.jobe.2023.106151

Hibbeler, R.C., 2014. Mechanics of Materials, 9th ed. Prentice-Hall, Boston.

Hibbeler, R.C., 2012. Structural Analysis, 8th ed. Pearson Prentice Hall, New Jersey.

Hose, Y.D., Seible, F., 1999. Performance Evaluation Database for Concrete Bridge Components and Systems under Simulated Seismic Loads. Berkeley.

UNIVERSITAS
GADJAH MADA
Studi Eksperimen, Numeris, dan Semi Analitis Perangkat Peredam Eksternal Modifikasi Dinamis Metallic
Bar Yielding Passive Damper dengan Material BjTP 280
Bintang Gunindra Aryandaru, Prof. Ir. Iman Satyarno, M.E., Ph.D.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Jafary, M., Mehretehran, A.M., 2025. Experimental and Analytical Study of Bent Steel Plate Honeycomb Damper. Journal of Construction Steel Research. https://doi.org/10.2139/ssrn.5272130

Jagota, V., Preet, A., Sethi, S., Kumar, K., 2013. Finite Element Method: An Overview, Walailak J Sci & Tech.

Jirásek, Milan., Bažant, Z.P.., 2002. Inelastic Analysis of Structures. John Wiley and Sons, Chichester.

Jones, D.R.H., Ashby, M.F., 2019. Engineering Materials: An Introduction to Properties, Applications and Design. Butterworth-Heinemann, Oxford.

Karavasilis, T.L., Kamaris, G.S., Tzimas, A.S., 2014. Buildings and Bridges Equipped with Passive Dampers Under Seismic Actions: Modeling and Analysis, dalam: Encyclopedia of Earthquake Engineering. Springer Berlin Heidelberg, hlm. 1–15. https://doi.org/10.1007/978-3-642-36197-5_147-1

Kim, G.-C., Kim, Y.-S., 2025. Performance Test of Engineering Plastics Slit Damper. Journal of The korean Association For Spatial Structures 25, 61–68. https://doi.org/10.9712/KASS.2025.25.2.61

Lago, A., Trabucco, D., Wood, A., 2019. Damping Technologies for Tall Buildings. Elsevier Inc., Cambridge. https://doi.org/10.1016/C2017-0-01327-7

Lei, H., Jiawang, L., Naeem Ph.D. Pe, A., Qiu, C., 2025. Hysteretic Model and Numerical Analysis of a Self-centering Disc Slit Damper. International Journal of Steel Structures 25. https://doi.org/10.1007/s13296-025-00966-4

Maison, B.F., Speicher, M.S., 2016. Loading protocols for ASCE 41 backbone curves. Earthquake Spectra 32, 2513–2532. https://doi.org/10.1193/010816EQS007EP

Marwoto, S., 2019. APLIKASI EVALUASI KERUSAKAN JEMBATAN BETON BERBASIS SISTEM PAKAR DENGAN TEKNOLOGI ANDROID. Jurnal Riset Rekayasa Sipil Universitas Sebelas Maret 3, 34–41.

Moestopo, M., Imran, I., Siringoringo, D.M., Michael, J., Lim, E., Yamazaki, S., 2022. Seismic design and performance evaluation of typical lightweight and heavyweight

Studi Eksperimen, Numeris, dan Semi Analitis Perangkat Peredam Eksternal Modifikasi Dinamis Metallic
Bar Yielding Passive Damper dengan Material BjTP 280
Bintang Gunindra Aryandaru, Prof. Ir. Iman Satyarno, M.E., Ph.D.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

RC girder bridges with friction pendulum bearing in Indonesia. Structures 46, 1154–1170. https://doi.org/10.1016/j.istruc.2022.11.003

Ong, C.-B., Chin, C.L., Chau Khun, M., Jia Yang, T., Awang, A., Omar, W., 2022. Seismic retrofit of reinforced concrete beam-column joints using various confinement techniques: A review. Structures 42. https://doi.org/10.1016/j.istruc.2022.05.114

Park, R., 1988. State of the Art Report:Ductility Evaluation From Laboratory and Analytical Testing. Proceedings of Ninth World Conference on Earthquake Engineering 8, 605–616.

Pekelnicky, R., Poland, C., 2014. ASCE 41-13: Seismic Evaluation and Retrofit Rehabilitation of Existing Buildings, dalam: SEAOC 2012 CONVENTION PROCEEDINGS.

Prager, W., 1956. A New Method of Analyzing Stresses and Strains in Work-Hardening Plastic Solids. J. Appl. Mech. 23, 493–496. https://doi.org/10.1115/1.4011389

Prasad, B.B., 2018. The theory of continuum and elasto-plastic materials. Technische Universität Berlin, Berlin.

Priestley, M.J.N., Seible, F., Calvi, G.M., 2007. Seismic Design and Retrofit of Bridges, Seismic Design and Retrofit of Bridges. John Wiley and Sons, New York. https://doi.org/10.1002/9780470172858

Prihatmaji, Y., Kitamori, A., Komatsu, K., 2014. Traditional Javanese Wooden Houses (Joglo) Damaged By May 2006 Yogyakarta Earthquake, Indonesia. International Journal of Architectural Heritage 8. https://doi.org/10.1080/15583058.2012.692847

Puspitasari, S.D., Harahap, S., Astuti, P., 2023. A Critical Review of Bridge Management System in Indonesia, dalam: Lecture Notes in Civil Engineering. Springer Science and Business Media Deutschland GmbH, hlm. 381–389. https://doi.org/10.1007/978-981-16-9348-9_33

Rakan-Nasrabadi, T., Pourmahdi-Tazeabadi, S., karimi-gabalou, S., haghollahi, A., 2024. On the behavior of the hybrid system of flat steel shear walls and cold- formed S-shaped steel plate dampers under cyclic lateral loading. https://doi.org/10.21203/rs.3.rs-4900792/v1

UNIVERSITAS
GADJAH MADA
**Studi Eksperimen, Numeris, dan Semi Analitis Perangkat Peredam Eksternal Modifikasi Dinamis Metallic
Bar Yielding Passive Damper dengan Material BjTP 280**
Bintang Gunindra Aryandaru, Prof. Ir. Iman Satyarno, M.E., Ph.D.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Sun, S., Qiu, C., Xiao, F., Du, X., Liu, H., 2025. Seismic response analysis of SDOF systems with disc spring- or shape memory alloy- based self-centering slip friction dampers: A comparative study. Structures 71. https://doi.org/10.1016/j.istruc.2024.107968

Surapureddy, R., Schönning, A., Stagon, S., Kassab, A., 2016. Predicting pressure distribution between transfemoral prosthetic socket and residual limb using finite element analysis Predicting pressure distribution between transfemoral prosthetic socket 33, Int. J. Experimental and Computational Biomechanics.

Tian, Q., Liao, Y., Xie, X., Zhuge, H., 2020. Study on the prediction method of the ultra-low-cycle fatigue damage of steel. Applied Sciences (Switzerland) 10. https://doi.org/10.3390/app10020679

Willford, M., Smith, R., Merello, R., 2010. Intrinsic and supplementary damping in tall buildings. Proceedings of The Institution of Civil Engineers-structures and Buildings - PROC INST CIVIL ENG-STRUCT B 163, 111–118. https://doi.org/10.1680/stbu.2010.163.2.111

Yang, T., Li, T., Tobber, L., Pan, X., 2019. Experimental and numerical study of honeycomb structural fuses. Eng. Struct. 204, 109814. https://doi.org/10.1016/j.engstruct.2019.109814

Ye, J., 2024. Analysis on Bridge Collapse Incidents Caused by Earthquakes and Mitigation Strategies. Transactions on Engineering and Technology Research 4.

Yenidogan, C., 2021. Earthquake-Resilient Design of Seismically Isolated Buildings: A Review of Technology. Vibration. https://doi.org/10.3390/vibration4030035

Zhang, Y., Wu, Z., Li, Y., Wu, H., Wang, J., 2025. Research on seismic performance of a new combined ADAS damper, dalam: Journal of Physics: Conference Series. Institute of Physics. https://doi.org/10.1088/1742-6596/3080/1/012038

Zienkiewicz, O.C., Taylor, R.L., Fox, D., 2013. The Finite Element Method for Solid and Structural Mechanics, 7th ed, The Finite Element Method for Solid and Structural Mechanics: Seventh Edition. Butterworth-Heinemann. https://doi.org/10.1016/C2009-0-26332-X

UNIVERSITAS
GADJAH MADA
Studi Eksperimen, Numeris, dan Semi Analitis Perangkat Peredam Eksternal Modifikasi Dinamis Metallic Bar Yielding Passive Damper dengan Material BjTP 280
Bintang Gunindra Aryandaru, Prof. Ir. Iman Satyarno, M.E., Ph.D.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Zingg, D.W., 1999. Fundamental of Computational Fluid Dynamics. NASA Ames Research Center, Toronto.

Zorić, A., Trajković-Milenković, M., Zlatkov, D., Vacev, T., 2022. Semi-Analytical Solution for Elastoplastic Deflection of Non-Prismatic Cantilever Beams with Circular Cross-Section. Applied Sciences (Switzerland) 12. https://doi.org/10.3390/app12115439