

PEER REPORTS CATALOG

- PEER 2024/05** Virtucio, M., Cetiner, B., Zhao, B., Soga, K., Taciroglu, E. (2024). A Granular Framework for Modeling the Capacity Loss and Recovery of Regional Transportation Networks under Seismic Hazards: A Case Study on the Port of Los Angeles, *PEER Report 2024/05*. Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2024/04** Zhu, M., Scott, M. (2024). Two-Dimensional Debris-Fluid-Structure Interaction with the Particle Finite Element Methods, *PEER Report 2024/04*. Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2024/03** Motamed, R., McCallen, D., Saxena, S. (2024). An International Workshop on Large-Scale Shake Table Testing for the Assessment of Soil-Foundation-Structure-System Response for Seismic Safety of DOE Nuclear Facilities, A Virtual Workshop – 17-18 May 2021, *PEER Report 2024/03*. Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2024/02** Sepulveda, C., Bustamante, R., Mosqueda, G. (2024). Seismic Performance of Isolated Bridges Under Beyond Design Basis, *PEER Report 2024/02*. Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2024/01** Moghimi, G., Makris, N. (2024). Response Modification of Structures with Supplemental Rotational Inertia, *PEER Report 2024/01*. Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2023/02** Stuedlein, A. W., Alemu, B., Evans, T. M., Kramer, S. L., Stewart, J. P., Ulmer, K., & Ziotopoulou, K. (2023). PEER Workshop on Liquefaction Susceptibility, *PEER Report 2023/02*. Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2023/01** Stuedlein, A. W., Dadashiserej, A., and Jana, A. (2023). Models for the Cyclic Resistance of Silts and Evaluation of Cyclic Failure during Subduction Zone Earthquakes, *PEER Report 2023/01*. Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2022/06** Tan, P., Sitar, N. (2022). Parallel Level-Set DEM (LS-DEM) Development and Application to the Study of Deformation and Flow of Granular Media, *PEER Report 2022/06*. Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2022/05** Kinikles, D., McCartney, J. S., (2022). Hyperbolic Hydro-mechanical Model for Seismic Compression Prediction of Unsaturated Soils in the Funicular Regime, *PEER Report 2022/05*. Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2022/04** McCallen D., Petrone F., Esmailzadeh Seylabi, E., Pitarka A., Abrahamson N., Elfass S. (2022). The PEER International Pacific Rim Forum 2021: Regional-Scale Simulation of Earthquake Ground Motions and Infrastructure Response for Performance-Based Earthquake Engineering, *PEER Report No. 2022/04*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA
- PEER 2022/03** Aghagholizadeh M., Makris N. (2022). Moment Resisting Frames Coupled with Rocking Walls Subjected to Earthquakes, *PEER Report No. 2022/03*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA
- PEER 2022/02** Andrade J.A. (2022). Micro-Inspired Continuum Modeling Using Virtual Experiments, *PEER Report No. 2022/02*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2022/01** Zhou J., Kunnath S.K. (2022). Capacity Limit States for Nonductile Bridge Columns, *PEER Report No. 2022/02*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2021/11** Mosalam K., Kasalanati A. (2021). PEER Annual Report 2020-2021, *PEER Report No. 2021/11*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2021/10** Chang M., Stanton J., Eberhard M. (2021). Seismic performance of column-to-drilled-shaft connections in reinforced concrete bridges, *PEER Report No. 2021/10*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2021/09** Silva-Lopez R.I., Baker J.W. (2021). Use of corridors for decision making in transportation networks in seismic regions, *PEER Report No. 2021/09*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2021/08** Amiri S.M.A., Moustafa M.A., Sanders D.H. (2021). Seismic design and detailing of bridge columns to account for ground-motion duration, *PEER Report No. 2021/07*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2021/07** Orang M.J., Motamed R. (2021). Shake table tests on a shallow foundation on liquefiable soils supported on helical piles, *PEER Report No. 2021/06*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2021/06** Terzic V., Villanueva P.K., Saldana D., Yoo D.Y. (2021). Novel framework for probabilistic evaluation of functional recovery of building systems, *PEER Report No. 2021/08*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.

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- PEER 2021/04** Mauer B.W., Mertan G., Baird A.J. (2021). Toward multi-tier modeling of liquefaction impacts on transportation infrastructure, *PEER Report No. 2021/04*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2021/03** Hutabarat D., Bray J.D. (2021). Effective stress analysis of liquefaction sites and evaluation of sediment ejecta potential, *PEER Report No. 2021/03*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
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- PEER 2020/24** Reis E. (2020). Seismic performance of a single-family wood-frame houses: comparing analytical and industry catastrophe models, *PEER Report No. 2020/24*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2020/23** Vail K., Lizundia B., Welch D.P., Reis E. (2020). Earthquake damage workshop, *PEER Report No. 2020/23*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2020/22** Welch D.P. Deierlein G.G. (2020). Technical background report for structural analysis and performance assessment, *PEER Report No. 2020/22*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2020/21** Schiller B., Hutchinson T.C., Cobeen K. (2020e). Comparison of the response of small and large component cripple wall specimens tested under simulated seismic loading, *PEER Report No. 2020/21*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2020/20** Cobeen K., Mahdavi V., Hutchinson T.C., Schiller B., Welch D., Kang G., Bozorgnia Y. (2020). Large-component seismic testing for existing and retrofitted single-family wood-frame dwellings, *PEER Report No. 2020/20*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
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- PEER 2020/18** Schiller B., Hutchinson T.C., Cobeen K. (2020c). Cripple wall small-component test program: Wet specimens II, *PEER Report No. 2020/18*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2020/17** Schiller B., Hutchinson T.C., Cobeen K. (2020b). Cripple wall small-component test program: Dry specimens, *PEER Report No. 2020/17*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2020/16** Schiller B., Hutchinson T.C., Cobeen K. (2020a). Cripple wall small-component test program: Wet specimens I, *PEER Report No. 2020/16*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2020/15** Zareian F., Lanning J. (2020). Development of testing protocol for cripple wall components, *PEER Report No. 2020/15*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2020/14** Mazzoni S., Gregor N., Al Atik L., Bozorgnia Y., Welch D.P., Deierlein G.G. (2020). Probabilistic seismic hazard analysis and selecting and scaling of ground motion records, *PEER Report No. 2020/14*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2020/13** Reis E. (2020). Development of index buildings, *PEER Report No. 2020/13*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2020/12** Reis E., Bozorgnia Y., Burton H., Cobeen K., Deierlein G.D., Hutchinson T., Kang G.S., Lizundia B., Mazzoni S., Rabinovici S., Schiller B., Welch D.P., Zareian F. (2020). Project technical summary, *PEER Report No. 2020/12*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2020/11** Wu Y., Günay S., Mosalam K.M. (2020). Hybrid simulations for the seismic evaluation of resilient bridge systems, *PEER Report No. 2020/12*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2020/10** Nema A., Restrepo J.I. (2020). Low seismic damage columns for accelerated bridge construction, *PEER Report No. 2020/10*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2020/09** Günay S., Hu F. Mosalam K.M., Nema A., Restrepo J.I., Zsarnóczay A., Baker J.W. (2020). Blind prediction of shaking table tests of a new bridge ben design, *PEER Report No. 2020/09*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2020/08** Mosalam K.M., Kasalanati A. (2020). PEER activities report 2018–2020, *PEER Report No. 2020/08*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2020/07** Gregor N., Addo K., Al Atik L., Boore D.M., Bozorgnia Y., Campbell K.W., Chou B.S.-J., Gülerce Z., Hassani B., Kishida T., Kuehn N., Midorikawa S., Mazzoni S., Parker G.A., Si H., Stewart J.P., Youngs R.R. (2020). Comparison of NGA-Sub

- ground-motion models, *PEER Report No. 2020/07*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2020/06** Si H., Midorikawa S., Kishida T. (2020). Development of NGA-Sub ground-motion model of 5%-damped pseudo-spectral acceleration based on database for subduction earthquakes in Japan, *PEER Report No. 2020/06*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
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- PEER 2019/09** Hammad A., Moustafa M. (2019). Seismic behavior of special concentric braced frames under short- and long-duration ground motions, *PEER Report No. 2019/09*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2019/08** Mojdra R., Ryan K.L. (2019). Influence of vertical ground motion on bridges isolated with spherical sliding bearings, *PEER Report No. 2019/08*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2019/07** Gao Y., Mosalam K.M. (2019). PEER Hub ImageNet (ϕ -Net): A large-scale multi-attribute benchmark dataset of structural images, *PEER Report No. 2019/07*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2019/06** Zhu M., Scott M.H. (2019). Fluid–structure interaction and Python-scripting capabilities in OpenSees, *PEER Report No. 2019/06*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2019/05** Kang G.S., Muin S., Archbold J., Woods B., Mosalam K.M. (2019). Expected earthquake performance of buildings designed to the California Building Code (California Alfred E. Alquist Seismic Safety Publication 19-01), *PEER Report No. 2019/05*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2019/04** Msangalathu S., Shokrabada M., Burton H.V. (2019). Aftershock seismic vulnerability and time-dependent risk assessment of bridges, *PEER Report No. 2019/04*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
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- PEER 2019/02** Løkke A., Chopra A.K. (2019). Direct-finite-element method for nonlinear earthquake analysis of concrete dams including dam–water–foundation rock interaction, *PEER Report No. 2019/02*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2019/01** Moss R.E.S., Gebhart T.R., Frost D.J., Ledezma C. (2019). Flow-failure case history of the Las Palmas, Chile, tailings dam, *PEER Report No. 2019/01*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2018/08** Goulet C.G., Bozorgnia Y., Abrahamson N.A., Kuehn H., Al Atik L., Youngs R.R., Graves R.W., Atkinson G. (2018). Central and Eastern North America ground-motion characterization: NGA-East final report, *PEER Report No. 2018/08*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2018/07** Bayless J., Abrahamson N.A. (2018). An empirical model for Fourier Amplitude Spectra using the NGA-West2 Database, *PEER Report No. 2018/07*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2018/06** Arduino P., Chen L., McGann C.R. (2018). Estimation of shear demands on rock-socketed drilled shafts subjected to lateral loading, *PEER Report No. 2018/06*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2018/05** Kottke A., Abrahamson N.A., Boore D.M., Bozorgnia Y., Goulet C., Hollenback J., Kishida T., Der Kiureghian A., Ktenidou O., Kuehn N., Rathje E.M., Silva W.J., Thompson E., Wang X. (2018). Selection of random vibration procedures for the NGA-East project, *PEER Report No. 2018/05*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2018/04** Watson-Lamprey J. (2018). Capturing directivity effects in the mean and aleatory variability of the NGA-West 2 ground motion prediction equations, *PEER Report No. 2018/04*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.

- PEER 2018/03** Hale C., Abrahamson N.A., Bozorgnia Y. (2018). Probabilistic seismic hazard analysis code verification, *PEER Report No. 2018/03*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2018/02** Abrahamson N.A., Kuehn N., Gülerce Z., Gregor N., Bozorgnia Y., Parker G., Stewart J.P., Chiou B.S.-J., Idriss I.M., Campbell K.W., Youngs R.R. (2018). Update of the BCHydro subduction ground-motion model using the NGA-Subduction dataset, *PEER Report No. 2018/02*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
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- PEER 2017/12** Simpson B.G., Mahin S.A., Lai J.-W. (2017). Experimental investigation of the behavior of vintage and retrofit concentrically braced steel frames under cyclic loading, *PEER Report No. 2017/12*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2017/11** Shao B., Schellenberg A.H., Schoettler M.J., Mahin S.A. (2017). Preliminary studies on the dynamic response of a seismically isolated Prototype Gen-IV Sodium-Cooled Fast Reactor (PGSFR), *PEER Report No. 2017/11*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
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- PEER 2017/08** Turner B.J., Brandenberg S.J., Stewart J.P. (2018). Influence of kinematic SSI on foundation input motions for bridges on deep foundations, *PEER Report No. 2017/08*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
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- PEER 2017/06** Hamburger R., Moehle J.P. (Eds.), Baker J., Bray J., Crouse C.B., Deierlein G.G., Hooper J., Lew M., Maffei J., Mahin S.A., Malley J., Naeim F., Stewart J.P., Wallace J. (2017). Guidelines for performance-based seismic design of tall buildings, Version 2.02. TBI Working Group, *PEER Report No. 2017/06*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2017/05** Hashash Y.M.A., Harmon J.A., Ilhan O., Parker G.A., Stewart J.P. (2017). Recommendations for ergodic nonlinear site amplification in Central and Eastern North America, *PEER Report No. 2017/05*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
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- PEER 2017/03** Goulet C.A., Bozorgnia Y., Kuehn N., Al Atik L., Youngs R.R., Graves R.W., Atkinson G.M. (2017). NGA-East ground-motion models for the U.S. Geological Survey national seismic hazard maps, *PEER Report No. 2017/03*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2017/02** Bray J.D., Boulanger R.W., Cubrinovski M., Tokimatsu K., Kramer S.L., O’Rourke T., Rathje E., Green R.A., Robinson P.K., Beyaei C.Z. (2017). U.S.–New Zealand–Japan Workshop: Liquefaction-induced ground movements effects, University of California, Berkeley, California, 2–4 November 2016, *PEER Report No. 2017/02*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2017/01** Mosalam K.M., Kasalanati A., Kang G. (2017). 2016 PEER annual report, *PEER Report No. 2017/01*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2016/10** Ling X., Mosalam K.M. (2016). Performance-based robust nonlinear seismic analysis with application to reinforced concrete bridge systems, *PEER Report No. 2016/10*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2016/09** Hurtado G., Moehle J.P. (2016). Detailing requirements for column plastic hinges subjected to combined flexural, axial, and torsional seismic loading, *PEER Report No. 2016/09*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2016/08** Cimellaro G.P., Zamani-Noori A., Kamouh O., Terzic V., Mahin S.A. (2016). Resilience of critical structures, infrastructure, and communities, *PEER Report No. 2016/08*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
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- PEER 2016/02** Kishida T., Ktenidou O.-J., Darragh R.B., Silva W.J. (2016). semi-automated procedure for windowing time series and computing Fourier amplitude spectra for the NGA-West2 database, *PEER Report No. 2016/02*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2016/01** Ktenidou O.J., Abrahamson N.A., Darragh R.B., Silva W.J. (2016). A methodology for the estimation of Kappa (κ) from large datasets: Example application to rock sites in the NGA-East database and implications on design motions, *PEER Report No. 2016/01*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
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- PEER 2015/11** Kwong N.S., Chopra A.K. (2015). Selection and scaling of ground motions for nonlinear response history analysis of buildings in performance-based earthquake engineering, *PEER Report No. 2015/11*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
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- PEER 2015/08** NGA-East: Adjustments to median ground-motion models for Central and Eastern North America, *PEER Report No. 2015/08*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
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- PEER 2015/04** NGA-East: Median ground-motion models for the Central and Eastern North America Region, *PEER Report No. 2015/04*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
- PEER 2015/03** Kelly J.M., Van Engelen N.D. (2015). Single series solution for the rectangular fiber-reinforced elastomeric isolator compression modulus, *PEER Report No. 2015/03*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
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- PEER 2015/01** Terzic R., Schoettler M.J., Restrepo J.I., Mahin S.A. (2015). Concrete column blind prediction contest 2010: outcomes and observations, *PEER Report No. 2015/01*, Pacific Earthquake Engineering Research Center, University of California, Berkeley, CA.
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