***INSPECT–SPSW****:* ***IN****elastic* ***S****eismic* ***P****erformance* ***E****valuation* ***C****omputational* ***T****ool for* ***S****teel* ***P****late* ***S****hear* ***W****all Modeling in OpenSees*

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The *INSPECT–SPSW* program is designed to simplify the process of structural modeling and lateral loads analyses for SPSWs utilizing the OpenSees program. The creation of the input text file for OpenSees is facilitated by the GUI pre-processor, while running analyses and manipulating outputs are fully automated by the GUI post-processor in *INSPECT–SPSW*. The high-level handling and automation capabilities provided by *INSPECT–SPSW* liberate the structural/earthquake engineer from the distractions of maneuvering through the minute syntax details. Thus, transforming SPSW modeling and design from a tedious exercise into a streamlined and seamless experience without compromising its inherent rigor. *INSPECT–SPSW* would be found useful and appealing to structural/earthquake engineering students, researchers, and practitioners alike. The freely distributed executable version of the OpenSees program, which is made free and publically available at this webpage: [[https://opensees.berkeley.edu](https://opensees.berkeley.edu/)], is included within the *INSPECT–SPSW* package.

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* AlHamaydeh, M., Maky, A. “INSPECT-SPSW: INelastic Seismic Performance Evaluation Computational Tool for Steel Plate Shear Wall Modeling in OpenSees.” *Journal of Computing in Civil Engineering, ASCE*, (2022).

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**INSPECT–SPSW**

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The GUI contains icons and graphics designed by [[icons8.com]](http://freepik.com/).

The following software components is used in *INSPECT–SPSW*:

         ZedGraph charting library [<http://sourceforge.net/projects/zedgraph>].

         Math.Net computing library [[http://www.mathdotnet.com](http://www.mathdotnet.com/)].

         Open Toolkit OpenGL and utility libraries [https://opentk.net].