EVALUATION OF PEAK GROUND ACCELERATION
FOR INDONESIA EARTHQUAKE MAP IN PADANG

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ABSTRACT

Indonesia is a country frequently hit by earthquake because Indonesia is located at the confluence of three continental plates. Lately earthquake caused many losses both in terms of lives lost or the material. Therefore, all buildings must be designed by considering the acceleration of seismic zoning of each area. Due to frequent earthquakes every year, then the map should be updated based on earthquake last occurrence, especially for large scale earthquake.

Regulations governing the seismicity in Indonesia is SNI 03-1726-2002 which was revised in 2010. These regulations adopt some rules of another country. And possibly regulation is less suitable if adopted in full in Indonesia. In this thesis will explain how to obtain the maximum earthquake acceleration at a point where using tools in the form of software, where software is capable of processing data recorded at the USGS, and capable of producing an earthquake acceleration.

Padang is one of the most populous city in Indonesia and is often hit by earthquakes, so necessary to the study of seismicity. Where to designing earthquake resistant building require an acceleration value. Acceleration can be obtained by the method of DSHA and PSHA. The method is capable of processing seismic data that there be an acceleration value.
With this final work is expected to make it easier to search for the maximum earthquake acceleration with existing seismic data. And is expected to be learning about the earthquake map. The final task is still far from perfect. If there is a mistake I apologize for the size.

**Keywords**: Peak Ground Acceleration, Earthquake, PSHA, DSHA, USGS, SNI 03-1726-2002.