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Abstract

The objective of this paper is to show peak ground velocity (PGV) maps for Mexico City during four past earthquakes. The method of computation, as well as the computer program and its calibration are described. The calibration intends to get estimated PGV values close to those measured. Additionally, a group of equations are proposed, aimed to calculate PGV maps for postulated earthquakes. Finally, PGV maps (NS and EW components) for an earthquake with magnitude equal to 8.4 and focal distance equal to 300 km are shown, as an application of the equations proposed.

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