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### Abstract

The use of different seismic motion scaling criteria is explored through several narrow-band accelerograms. These correspond to fourteen records obtained on soft soil in Mexico City, specifically in the Ministry of Communications and Transportation site (SCT site). The motions are used for the reliability evaluation of three structures (5-, 10- and 20-story, 3-bay frames) designed in accordance with the Mexico City Seismic Code (RCDF). The minimum number of seismic motions (associated with a confidence band) that should be used in the analysis is estimated. This number of motions depends on the dispersion of the maximum story drifts produced by seismic motions with a given return period.

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