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A principal cause of earthquake damage is landsliding, and the ability to predict earthquake-triggered landslide displacements is important for many types of seismic-hazard analysis and for the design of engineered slopes. Newmark's method for modeling a landslide as a rigid-plastic block sliding on an inclined plane provides a workable means of predicting approximate landslide displacements; this method yields much more useful information than pseudostatic analysis and is far more practical ...

Newmark's model for predicting earthquake-induced landslide displacements provides a simple way to predict the coseismic displacements affecting a sliding mass subject to earthquake loading.

The permanent displacement of seismic slopes can be regarded as an effective criterion for stability estimation. This paper studied the characteristics of permanent displacements induced by velocity pulse-like ground motions and developed an empirical model to readily evaluate the stability of seismic slopes in a near-fault region.

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Estimation of the earthquake-triggered landslide displacement is one of the most important topics of slope engineering. • Newmark sliding block model is a widely used method for predicting earthquake-induced ground displacement. • A new useful and more appropriate regression equation has been obtained to estimate the Newmark displacement.

Applying Newmark's method requires knowing the yield or critical acceleration of the landslide (above which permanent displacement occurs), which can be determined from the static factor of safety and

from the landslide geometry. Earthquake acceleration-time histories can be selected to represent the shaking conditions of interest, and those parts of the record that lie above the critical acceleration are double integrated to determine the permanent landslide displacement.

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A PROBABILISTIC METHOD FOR THE PREDICTION OF EARTHQUAKE-INDUCED SLOPE DISPLACEMENTS. Simone Barani Paolo Bazurro Fabrizio Pelli. Dip.Te.Ris. AIR Worldwide Co. Geodeco S.p.A. University of Genoa San Francisco, CA, USA Via Aurelia 24 Viale Benedetto XV 16031 Genoa, Italy 16132 Genoa, Italy ABSTRACT

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