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# **Predicting Earthquake Induced Landslide Displacements**

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## Read Online Predicting Earthquake Induced Landslide Displacements

Predicting Earthquake Induced Landslide Displacements 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. Predicting Earthquake-Induced Landslide Displacements ... A principal cause of earthquake damage is landsliding, and the ability to predict earthquake-triggered landslide displacements is important for many types of seismic-

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hazard analysis and for the design of engineered slopes. Predicting Earthquake-Induced Landslide Displacements ... 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 ... PREDICTING EARTHQUAKE-INDUCED LANDSLIDE DISPLACEMENTS ... predicting

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simple way to predict the coseismic displacements affecting a sliding mass subject to earthquake loading. In this model, seismic slope stability is measured in terms of critical acceleration, which depends on the mechanical soil properties, pore-pressure

Seismically induced landslide displacements: a predictive ... 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. Prediction of amount of earthquake-induced slope ... The

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preliminary results show that the slope displacement resulted from Newmark model can reflect spatial distribution characteristics of earthquake-induced landslides. The predicted potential earthquake-induced landslide scenes present an obvious extending trend along the Xianshuihe fault. Predicting landslide scenes under potential earthquake ... As an example of application, this relation was employed to provide a basic document for earthquake-induced landslide hazard assessment at regional scale, according to a method proposed by Del Gaudio et al. (Bull Seismol Soc Am 93:557–569, 2003), applied to the whole Iranian territory, including Zagros region. A new empirical estimator of coseismic landslide

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... Pseudostatic analysis was the first method; this involves simply adding a permanent body force representing the earthquake shaking to a static limit equilibrium analysis. Stress-deformation analysis, a later development, involves much more complex modeling of slopes. Models of the triggering of landslides during earthquakes ... Defining the possible scenario of earthquake-induced landslides, Arias intensity is frequently used as a shaking parameter, being considered the most suitable for characterising earthquake impact, while Newmark's sliding-block model is widely used to predict the performance of natural slopes during earthquake shaking. Predictive model of Arias

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intensity and Newmark ... Landslide displacement is estimated by integrating twice with respect to time over the parts of an earthquake acceleration-time history that exceed the threshold acceleration required to overcome basal resistance and initiate sliding (Fig. 1). Regression models for estimating coseismic landslide ... Predicting approximate earthquake-induced landslide displacements is helpful for assessing earthquake hazards and designing slopes to withstand future earthquake shaking. In this work, the basic methodology outlined by Jibson (1993) is applied to derive the Newmark displacement of landslides based on strong ground-motion recordings during the 2013 Lushan Ms 7.0



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earthquake. Newmark displacement model for landslides induced by the ... For landslides characterized with “step-like” deformation curves, the accelerations of the deformation during the rainy season are destructive for both residents and infrastructure; therefore, it is essential to perform displacement prediction. Prediction model oriented for landslide displacement with ... Abstract Ageotechnical engineering microcomputer program has been developed for the determination of permanent slope displacements resulting from earthquake shaking. The Newmark procedure, in which accelerations in excess of yield accelerations are double integrated to obtain displacements, has been incorporated into the program

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DISPLMT. Microcomputer-Aided Evaluation of Earthquake-Induced ... Earthquake-induced landslide (EQIL) inventories are essential tools to extend our knowledge of the relationship between earthquakes and the landslides they can trigger. Regrettably, such inventories are difficult to generate and therefore scarce, and the available ones differ in terms of their quality and level of completeness. Randall W Jibson - USGS In particular, he showed that the number of landslides induced by earthquakes decreases with the increase in distance from the epicentre (Fig.1) and that the number of landslide increases with larger magnitude events (Fig. 2). Earthquake Prediction: Earthquake-induced landslides and

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... Predicting approximate earthquake-induced landslide displacements is helpful for assessing earthquake hazards and designing slopes to withstand future earthquake shaking. (PDF)

Prediction of Permanent ground Deformation of ... This model simplified the multi-block constitutive model and uses effective stress and excess pore pressure to predict the earthquake-induced landslides. The model was developed and applied by using earthquake simulations.

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