

Predicting Earthquake Induced Landslide Displacements

Predicting Earthquake-Induced Landslide Displacements ...Microcomputer-Aided Evaluation of Earthquake-Induced ...Predicting landslide scenes under potential earthquake ...Permanent displacement models of earthquake-induced ...Seismically induced landslide displacements: a predictive ...Randall W Jibson - USGSNewmark displacement model for landslides induced by the ...Bing: Predicting Earthquake Induced Landslide DisplacementsPredicting Earthquake Induced Landslide DisplacementsPredictive model of Arias intensity and Newmark ...PREDICTING EARTHQUAKE-INDUCED LANDSLIDE DISPLACEMENTS ...Regression models for estimating coseismic landslide ...Earthquake Induced Landslides - Causes, Effects ...Predicting Earthquake Induced Landslide DisplacementsA method for predicting co-seismic displacements of slopes ...Prediction of amount of earthquake-induced slope ...Predicting Earthquake-Induced Landslide Displacements ...Seismically induced landslide displacements: A predictive ...A new empirical estimator of coseismic landslide ...Why do earthquakes trigger catastrophic landslides ...Seismically induced landslide displacements: a predictive ...

Predicting Earthquake-Induced Landslide Displacements ...

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.

Microcomputer-Aided Evaluation of Earthquake-Induced ...

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.

Predicting landslide scenes under potential earthquake ...

The 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.

Permanent displacement models of earthquake-induced ...

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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).

Seismically induced landslide displacements: a predictive ...

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Randall W Jibson - USGS

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. We identified 264 velocity pulse-like ground motions from the

...

Newmark displacement model for landslides induced by the ...

The application of the method in the seriously struck area by Wenchuan earthquake shows that it is an effective tool for predicting co-seismic slope displacements as the predicted landslide distribution by using its estimated results agrees reasonably with the actual observations.

Bing: Predicting Earthquake Induced Landslide Displacements

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 DISPLMT.

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

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provides a workable means of predicting approximate landslide displacements; this method yields much more useful information than pseudostatic analysis and is far more practical ...

Predictive model of Arias intensity and Newmark ...

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.

PREDICTING EARTHQUAKE-INDUCED LANDSLIDE DISPLACEMENTS ...

Seismically induced landslide displacements: a predictive model 1. Introduction. Landslides are among the most hazardous effects of earthquakes (Keefer, 1984). This relevance has... 2. Seismic parameters of earthquake ground motion. The most commonly used parameter to describe earthquake ground ...

Regression models for estimating coseismic landslide ...

Earthquakes often trigger landslides, causing significant and even catastrophic

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damage to houses. If your house is in the path of an earthquake-induced landslide, it is at risk for damage from landslide debris, as well as sliding downhill itself.

Earthquake Induced Landslides - Causes, Effects ...

Long considered as a secondary effect of earthquakes, landslides triggered by earthquakes, mainly rock falls, disrupted soil slides and rock slides, mudflows and rock avalanches, can be responsible for a significant part of the damage associated with earthquakes.

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 dis

A method for predicting co-seismic displacements of slopes ...

Prediction of amount of earthquake-induced slope displacement by using Newmark

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method 1. Introduction. Slope stability is a critical consideration for superstructures and infrastructures. One of the most... 2. Analyses. In this study, the analyses have been performed based on Newmark Method. For ...

Prediction of amount of earthquake-induced slope ...

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

Predicting Earthquake-Induced Landslide Displacements ...

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 earthquake.

Seismically induced landslide displacements: A predictive ...

Newmark's model for predicting earthquake-induced landslide displacements

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provides a 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

A new empirical estimator of coseismic landslide ...

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.

Why do earthquakes trigger catastrophic landslides ...

Earthquake-induced landslides are responsible worldwide for significant socioeconomic losses and historically have a prominent position in the list of natural hazards affecting the Iran plateau. As a step toward the development of tools for the assessment and the management of this kind of hazard at regional scale, an empirical estimator of coseismic displacements along potential sliding surfaces was obtained through a regression analysis for the Zagros region, a mountainous Iranian region ...

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