

Predicting Earthquake Induced Landslide Displacements

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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

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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 ...

PREDICTING EARTHQUAKE-INDUCED LANDSLIDE DISPLACEMENTS ...

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-

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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 ...

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.

SafetyLit: Predicting earthquake-induced landslide ...

CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): 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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Predicting Earthquake Induced Landslide Displacements

A PROBABILISTIC METHOD FOR THE PREDICTION OF EARTHQUAKE-INDUCED SLOPE DISPLACEMENTS. Simone Barani Paolo Bazzurro 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

A Probabilistic Method for the Prediction of Earthquake ...

Reddit. Wechat. Abstract. The paper brings up to date and amplifies earlier work on earthquake-induced

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ground displacements using near-field strong-motion records, improved processing procedures and a homogenizing treatment of the seismological parameters. A review of upper bound limits to seismic displacements is given and a predictive procedure is examined that allows the probabilistic assessment of the likelihood of exceedance of predicted displacements to be made in the near field ...

Earthquake-induced ground displacements - Ambraseys - 1988 ...

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

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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. By analyzing the ...

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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.

Permanent displacement models of earthquake-induced ...

Earthquakes are a major triggering factor of landslides, and earthquake-induced landslides pose a major threat to infrastructure and human life. This paper presents the effects of slope angle, soil sensitivity, ground motion orientation, and multidirectional shaking on the results of seismic slope stability analyses.

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