

# Free reading Predicting earthquake induced landslide displacements (PDF)

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 in this model seismic slope stability is measured in terms of critical acceleration which depends on the mechanical soil properties pore pressure induced landslides in natural slopes 2 confirm that newmark's method fairly accurately predicts slope displacements if slope geometry soil properties and earthquake ground accelerations are known newmark's method is relatively simple to apply and provides a quantitative prediction of the for rainfall induced landslide displacement it is necessary to clarify the correlation degree between rainfall factors and imf displacement components this study uses the grey correlation theory proposed by deng to judge the correlation degree between rainfall and high frequency and low frequency displacement components the basic theory is in this paper the two methods are used sequentially to simulate a laboratory experiment of rainfall induced landslide from small to large displacements and a novel methodology to map results from fem to mpm is proposed earthquake triggered landslides and slope seismic waves interaction inferring induced displacements salvatore martino celine bourdeau josé delgado luca lenti chapter first online 22 december 2020 950 accesses 1 citations part of the book series icl contribution to landslide disaster risk reduction cldrr abstract seismically induced landslides can often cause severe human and economic losses therefore it is worth assessing the seismic performance of slopes through a reliable quantification of the permanent displacements induced by seismic loading seismic and rainfall induced displacements of an existing landslide findings from the continuous monitoring by paolo ruggeri viviene m e fruzzetti antonio ferretti and giuseppe scarpelli department of materials environmental sciences and urban planning università politecnica delle marche 60131 ancona italy seismically induced landslide displacements a predictive model december 2000 engineering geology 58 3 337 351 doi 10 1016 s0013 7952 00 00042 9 authors roberto romeo to read seismic waves can shake mountainous landscapes triggering thousands of landslides regional scale landslide models primarily rely on shaking intensity parameters obtained by simplifying ground landslide profile the piansongshu landslide is located in the slope region of dabei village gaoliang town wanzhou district fig 2 the landslide has a tongue shaped plane form with a earthquake induced landslide displacement attenuation models and application in probabilistic seismic landslide displacement analysis a landslide displacement dll attenuation model has been developed using spectral intensity and a ratio of critical acceleration coefficient to ground acceleration coefficient 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 than finite element modeling 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 seismic and rainfall induced displacements of an existing landslide findings from the continuous monitoring february 2020 geosciences 10 3 90 doi 10 3390 geosciences10030090 remote sensing free full text retrieving the kinematic process of repeated mining induced landslides by fusing sar insar displacement logistic model and probability integral method journals remote sensing volume 15 issue 12 10 3390 rs15123145 rainfall induced landslides in singapore minor shallow landslides have occurred frequently on the island of singapore however very few major landslides greater than 10 m in height have occurred sep 11 2022 02 39 pm the factors that contributed to a landslide at the housing board's clementi northarc build to order bto site recently are being investigated these relations can be used to formulate scenarios of earthquake induced landslide displacements as well as to predict exceedance probabilities of fixed values of landslide displacements as in ordinary seismic hazard assessments section snippets seismic parameters of earthquake ground motion

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