

READ FREE 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 NEW MARK S METHOD FAIRLY ACCURATELY PREDICTS SLOPE DISPLACEMENTS IF SLOPE GEOMETRY SOIL PROPERTIES AND EARTHQUAKE GROUND ACCELERATIONS ARE KNOWN NEWMARK S METHOD IS RELATIVELY SIM PLE TO APPLY AND PROVIDES A QUANTITATIVE PREDICTION OF THE ARTICLE 21 JULY 2020 INTRODUCTION LANDSLIDES REFER TO MASS WASTING ON THE GROUND SURFACE CAUSING SEVERE CASUALTIES AND ECONOMIC LOSSES EACH YEAR EITHER INSTANTANEOUSLY FROM RAPID SLOPE EARTHQUAKE TRIGGERED LANDSLIDES AND SLOPE SEISMIC WAVES INTERACTION INFERRING INDUCED DISPLACEMENTS SALVATORE MARTINO CELINE BOURDEAU JOS² 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 DIFFERENT FROM WHAT WAS OBSERVED FOR RAINFALL INDUCED DISPLACEMENTS THE LANDSLIDE RESPONSE TO THE EARTHQUAKE IS IMMEDIATE AND WITHOUT DELAYED EFFECTS AFTER THE TRIGGERING THAT IS THE END OF THE SEISMIC EXCITATION CORRESPONDS TO THE END OF THE SEISMIC DISPLACEMENTS 1 INTRODUCTION LANDSLIDE SUSCEPTIBILITY AND HAZARD ASSESSMENT AND MAPPING ARE KEY ELEMENTS FOR DISASTER RISK MANAGEMENT AND PREVENTION IN THE LAST FEW DECADES QUANTITATIVE AND COMPUTING TOOLS FOR LANDSLIDE HAZARD MAPPING HAVE QUICKLY DEVELOPED AND EXPANDED INCLUDING EARTHQUAKE INDUCED LANDSLIDES PREDICTING EARTHQUAKE INDUCED LANDSLIDE DISPLACEMENTS USING NEWMARK S SLIDING BLOCK ANALYSIS 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 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 RESULTS OF GEOMORPHOLOGICAL ANALYSIS FIELD MAPPING GEOPHYSICAL SURVEYS SLOPE DISPLACEMENT AND A 60 M DEEP BOREHOLE IN THE INCIPIENT PORTION OF THE LANDSLIDE INDICATED THE PRESENCE OF A SUBVERTICAL TECTONIC FABRIC AND INTENSE FRACTURING AND WEATHERING OF THE ROCK MASS WHICH GRADUALLY DECREASE WITH DEPTH DISPLACEMENT PREDICTION METHOD OF RAINFALL INDUCED LANDSLIDE CONSIDERING MULTIPLE INFLUENCING FACTORS ORIGINAL PAPER PUBLISHED 22 SEPTEMBER 2022 VOLUME 115 PAGES 1051 1069 2023 CITE THIS ARTICLE DOWNLOAD PDF LI WANG YUSHAN CHEN XIAOHU HUANG LUN ZHANG XIAOWEI LI SHIMEI WANG 623 ACCESSES 2 CITATIONS EXPLORE ALL METRICS ABSTRACT 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 ABSTRACT 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 SEISMIC AND RAINFALL INDUCED DISPLACEMENTS OF AN EXISTING LANDSLIDE FINDINGS FROM THE CONTINUOUS MONITORING FEBRUARY 2020 GEOSCIENCES 10 3 90 doi 10 3390 GEOSCIENCES10030090 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 SIMULATION OF RAINFALL INDUCED LANDSLIDES FROM SMALL TO LARGE DISPLACEMENTS WITH AN EFFICIENT SEQUENTIAL USE OF FEM AND MPM CONFERENCE PAPER FIRST ONLINE 17 JUNE 2023 PP 419 426 CITE THIS CONFERENCE PAPER DOWNLOAD BOOK PDF DOWNLOAD BOOK EPUB GEOTECHNICAL ENGINEERING IN THE DIGITAL AND TECHNOLOGICAL INNOVATION ERA CNRIG 2023 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 UPDATED MAY 27 2022 03 19 PM PUBLISHED NOV 05 2021 11 14 PM WHAT CAUSES MUDSLIDES MUDSLIDES CAN OCCUR FOLLOWING HEAVY RAINFALL WHICH CAUSES LARGE AMOUNTS OF WATER TO ACCUMULATE AND

SEISMICALLY INDUCED LANDSLIDE DISPLACEMENTS A PREDICTIVE MODEL

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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

PREDICTING EARTHQUAKE INDUCED LANDSLIDE DISPLACEMENTS USING

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INDUCED LANDSLIDES IN NATURAL SLOPES 2 CONFIRM THAT NEW MARK S METHOD FAIRLY ACCURATELY PREDICTS SLOPE DISPLACEMENTS IF SLOPE GEOMETRY SOIL PROPERTIES AND EARTHQUAKE GROUND ACCELERATIONS ARE KNOWN NEWMARK S METHOD IS RELATIVELY SIM PLE TO APPLY AND PROVIDES A QUANTITATIVE PREDICTION OF THE

TRIGGERING AND RECOVERY OF EARTHQUAKE ACCELERATED LANDSLIDES

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EARTHQUAKE TRIGGERED LANDSLIDES AND SLOPE SEISMIC WAVES

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SEISMIC AND RAINFALL INDUCED DISPLACEMENTS OF AN EXISTING

NOV 25 2023

DIFFERENT FROM WHAT WAS OBSERVED FOR RAINFALL INDUCED DISPLACEMENTS THE LANDSLIDE RESPONSE TO THE EARTHQUAKE IS IMMEDIATE AND WITHOUT DELAYED EFFECTS AFTER THE TRIGGERING THAT IS THE END OF THE SEISMIC EXCITATION CORRESPONDS TO THE END OF THE SEISMIC DISPLACEMENTS

EARTHQUAKE INDUCED LANDSLIDE SUSCEPTIBILITY AND HAZARD

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1 INTRODUCTION LANDSLIDE SUSCEPTIBILITY AND HAZARD ASSESSMENT AND MAPPING ARE KEY ELEMENTS FOR DISASTER RISK MANAGEMENT AND PREVENTION IN THE LAST FEW DECADES QUANTITATIVE AND COMPUTING TOOLS FOR LANDSLIDE HAZARD MAPPING HAVE QUICKLY DEVELOPED AND EXPANDED INCLUDING EARTHQUAKE INDUCED LANDSLIDES

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DISPLACEMENT PREDICTION METHOD OF RAINFALL INDUCED LANDSLIDE

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SEISMICALLY INDUCED LANDSLIDE DISPLACEMENTS A PREDICTIVE

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ABSTRACT 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

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SIMULATION OF RAINFALL INDUCED LANDSLIDES FROM SMALL TO LARGE

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