



Slope Instability

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Slope Instability:

Slope Instability Denys Brunsdon, David B. Prior, 1984 **Slope Stability Engineering** Institution of Civil Engineers (Great Britain), 1991-04-15 This volume draws on the experience and extensive research of an international authorship to bring together details on slope stability causes of landslides landslide prevention new techniques for assessing and predicting stability new methods for stabilising slopes and the special considerations for coastal situations **Clay and Shale Slope Instability** William C. Haneberg, Scott A. Anderson, Geological Society of America. Division of Engineering Geology, 1995 Ten papers address both empirical and analytical aspects of clay and shale slope instability Among the topics discussed in detail are limit equilibrium stability analysis shear strength of clay and clayey colluvium use of triaxial test data to evaluate viscoplastic slope movements numerical modeling of pore pressure distribution in heterogeneous soils rational analysis of rainfall and landslide movement patterns the effects of hydrothermal alteration on slope stability mudrock durability and stability considerations and regional clay and shale slope stability problems in Italy **Soil Slope Instability and Stabilisation** Bruce F. Walker, Robin Fell, 1987 **Slope Stability and Erosion Control: Ecotechnological Solutions** Joanne E. Norris, Alexia Stokes, Slobodan B. Mickovski, Erik Cammeraat, Rens van Beek, Bruce C. Nicoll, Alexis Achim, 2008-02-29 This chapter describes the processes involved in the transport of material over hillslopes Hillslopes provide the gradients enabling material to be transported from the slopes themselves towards the valley bottoms directly by gravity alone or by water flowing down over the surface Gravity has the potential to transfer material downslope if the material resistance to contact it is insufficient Similarly water and wind flowing along the surface exert a drag on soil particles and have the potential to entrain material After the gradient has fallen below a critical threshold to keep the material in transport deposition occurs Conventionally slope processes in which gravity alone is the dominant transporting agent are called mass movements Brunsdon 1984 Processes in which other agents dominate are called erosion e.g wind or water erosion Flowing water is an important transporting agent on which the emphasis is placed here Although mass wasting is a natural process its incidence and impact may be exacerbated by human activities Crozier 1986 Morgan 2005 A situation may ultimately arise in which human interests become unsafe or unsustainable This impact is not only directly felt in the areas where material is removed or deposited and indirectly mass wasting may have an effect on soil and water quality in areas located further downstream In the following sections a brief overview is given of the mechanisms morphology causes and consequences of mass movements and erosion Landforming Horst J. Schor, Donald H. Gray, 2007-08-07 The first hands on instruction guide to landform grading and revegetation Landform grading provides a cost effective attractive and environmentally compatible way to construct slopes and other landforms that are stable and that blend in with the natural surroundings Landform grading design and construction technology have advanced rapidly during the past decade and this book explains the technique its uses its various applications and its significant advantages Landforming An Environmental

Approach to Hillside Development Mine Reclamation and Watershed Restoration presents the first comprehensive and practical guidebook to the innovative techniques of landform grading and revegetation Citing numerous practical applications in such areas as hillside housing developments mass grading operations surface mining and watershed reclamation projects the authors one an internationally recognized instructor and the other an engineer with over thirty years of practical experience in the field have teamed up to provide valuable information on The aesthetic and ecological benefits of landform grading and revegetation Analyses that demonstrate the stability of landform designed slopes Real world design construction procedures Construction in both upland slope areas and in stream corridors Analytical procedures and design aids to assist implementation Well documented and comprehensive case studies of actual projects Written in straightforward language and liberally illustrated with informative photographs and schematic drawings the text should prove of value to practicing professionals in such diverse fields as land planning civil and geotechnical engineering landscape architecture and geology as well as to personnel in a variety of local state and federal regulatory agencies and environmental interest groups HORST J SCHOR is the originator of the Landforming and Revegetation Concept and is Principal of H J Schor Consulting He has developed landform grading designs that have been implemented in a variety of hillside grading and mining reclamation projects for a diverse list of clients He has been a guest lecturer at The University of Wisconsin Madison The University of Dresden Germany and The University of California at Irvine DONALD H GRAY PHD is Professor Emeritus of Civil and Environmental Engineering at The University of Michigan In addition to speaking and teaching internationally he has co authored three books on subjects related geotechnical engineering and biotechnical slope protection **Slope Stability Reference Guide for National Forests in the United States** ,1994 Proceedings of a Workshop on Slope Stability Douglas N. Swanston,1985 **Soil Strength and Slope Stability** J. Michael Duncan,Stephen G. Wright,Thomas L. Brandon,2014-08-13 The definitive guide to the critical issue of slope stability and safety Soil Strength and Slope Stability Second Edition presents the latest thinking and techniques in the assessment of natural and man made slopes and the factors that cause them to survive or crumble Using clear concise language and practical examples the book explains the practical aspects of geotechnical engineering as applied to slopes and embankments The new second edition includes a thorough discussion on the use of analysis software providing the background to understand what the software is doing along with several methods of manual analysis that allow readers to verify software results The book also includes a new case study about Hurricane Katrina failures at 17th Street and London Avenue Canal plus additional case studies that frame the principles and techniques described Slope stability is a critical element of geotechnical engineering involved in virtually every civil engineering project especially highway development Soil Strength and Slope Stability fills the gap in industry literature by providing practical information on the subject without including extraneous theory that may distract from the application This balanced approach provides clear guidance for professionals in the field while remaining comprehensive

enough for use as a graduate level text Topics include Mechanics of soil and limit equilibrium procedures Analyzing slope stability rapid drawdown and partial consolidation Safety reliability and stability analyses Reinforced slopes stabilization and repair The book also describes examples and causes of slope failure and stability conditions for analysis and includes an appendix of slope stability charts Given how vital slope stability is to public safety a comprehensive resource for analysis and practical action is a valuable tool Soil Strength and Slope Stability is the definitive guide to the subject proving useful both in the classroom and in the field

Slope Stability and Stabilization Methods Lee W. Abramson, Thomas S. Lee, Sunil Sharma, Glenn M. Boyce, 2001-11-01 A major revision of the comprehensive text reference Written by world leading geotechnical engineers who share almost 100 years of combined experience Slope Stability and Stabilization Second Edition assembles the background information theory analytical methods design and construction approaches and practical examples necessary to carry out a complete slope stability project Retaining the best features of the previous edition this new book has been completely updated to address the latest trends and methodology in the field Features include All new chapters on shallow failures and stability of landfill slopes New material on probabilistic stability analysis cost analysis of stabilization alternatives and state of the art techniques in time domain reflectometry to help engineers plan and model new designs Tested and FHA approved procedures for the geotechnical stage of highway tunnel and bridge projects Sound guidance for geotechnical stage design and planning for virtually all types of construction projects Slope Stability and Stabilization Second Edition is filled with current and comprehensive information making it one of the best resources available on the subject and an essential reference for today's and tomorrow's professionals in geology geotechnical engineering soil science and landscape architecture

Rainfall-Induced Soil Slope Failure Lulu Zhang, Jinhui Li, Xu Li, Jie Zhang, Hong Zhu, 2018-09-03 Rainfall induced landslides are common around the world With global climate change their frequency is increasing and the consequences are becoming greater Previous studies assess them mostly from the perspective of a single discipline correlating landslides with rainstorms geomorphology and hydrology in order to establish a threshold prediction value for rainfall induced landslides analyzing the slope's stability using a geomechanical approach or assessing the risk from field records Rainfall Induced Soil Slope Failure Stability Analysis and Probabilistic Assessment integrates probabilistic approaches with the geotechnical modeling of slope failures under rainfall conditions with unsaturated soil It covers theoretical models of rainfall infiltration and stability analysis reliability analysis based on coupled hydro mechanical modelling stability of slopes with cracks gravels and spatial heterogeneous soils and probabilistic model calibration based on measurement It focuses on the uncertainties involved with rainfall induced landslides and presents state of the art techniques and methods which characterize the uncertainties and quantify the probabilities and risk of rainfall induced landslide hazards Additionally the authors cover The failure mechanisms of rainfall induced slope failure Commonly used infiltration and stability methods The infiltration and stability of natural soil slopes with cracks and colluvium materials

Stability evaluation methods based on probabilistic approaches The effect of spatial variability on unsaturated soil slopes and more

Proceedings of the 2024 6th International Conference on Structural Seismic and Civil Engineering Research (ICSSCER 2024) Zhiqiang Zhang, Chaofeng Zeng, Sudharshan N. Raman, Mohammadreza Vafaei, 2024-10-26 This is an open access book As society progresses and the city scale increases architecture is diversifying and becoming complex with structures transforming from simple structures into high rise long span and even special and complex structures Architecture is where people live and work so its security must be ensured However the architectural structure is likely to be destroyed by natural disasters earthquakes wind snow rain man made faults and incidents explosion fire crashes and accidental events like attacks and man made sabotage in recent years Therefore countries have endeavored to improve architectural security for many years A large number of anti seismic issues in the civil engineering construction have turned up which also gave birth to many new anti seismic theories technologies and products 2024 6th International Conference on Structural Seismic and Civil Engineering Research ICSSCER 2024 will be held on August 16 18 2024 in Qingdao Shandong China With a display of the latest research outcomes in theoretical research experimental study and engineering application this conference creates a platform for scholars researchers and technical personnel to exchange ideas and further understand each other We extend a warm welcome to you and expect you to attend this academic feast to promote academic exchanges of relevant issues and advance the development of structural anti seismic and civil engineering research and application

Semi-quantitative Approaches for Landslide Assessment and Prediction Sujit Mandal, Ramkrishna Maiti, 2014-11-07 In the present authors attempted to have a clear insight into the interworking of geotectonic geomorphic hydrologic and anthropogenic factors leading to landslide in the Shiv khola Watershed the most worst affected region of Darjiling Himalaya This book includes the parameters responsible for landslide events in mountainous areas It provides knowledge and understanding to the local people planners and policy makers about the causes and consequences of landslides as well as provides a suitable method to mitigate the landslips The book deals with the role of land water and soil in landslide phenomena These three attributes have been described in terms of critical rainfall critical slope critical height and changes and development of drainage network in landslides Mitigations and site specific management options are evaluated considering the roles of local govt community and other organizations in both pre slide and post slide periods Various scientific methods have been used to assess the landslides that will bring about tremendous help to researchers in the field In particular Researchers in Mountain Geomorphology and Geological and Geographical Society will get tremendous help from some topics such as 1 D slope stability model SCS Curve Number Technique Assessment of morphological parameters application of RS GIS Application of Analytical Hierarchy Process Semi quantitative approach is followed for understanding spatial distribution of cohesion friction angle slope lithology and lineaments drainage upslope contributing area land use and land cover types etc This book also reveals some techniques and models for initiating slope instability

Physics and Mechanics of Soil Liquefaction Poul V. Lade, Jerry A. Yamamuro, 2018-04-27 The workshop aims to provide a fundamental understanding of the liquefaction process necessary to the enhancement of liquefaction prediction The contributions are divided into eight sections which include factors affecting liquefaction susceptibility and field studies of liquefaction

Civil Engineering and Urban Planning III Kouros Mohammadian, Konstadinos G. Goulias, Elif Cicek, Jieh-Jiuh Wang, Chrysanthos Maraveas, 2014-07-23 Civil Engineering and Urban Planning III addresses civil engineering and urban planning issues associated with transportation and the environment The contributions not only highlight current practices in these areas but also pay attention to future research and applications and provide an overview of the progress made in a wide variety of topics

Surface Mining, Second Edition Bruce A. Kennedy, Society for Mining, Metallurgy, and Exploration (U.S.), 1990 This SME classic is both a reference book for the working engineer and a textbook for the mining student This hardcover edition gives a brief history of surface mining and a general overview of the state of surface mining today topics range from production and productivity to technological developments and trends in equipment This extremely useful text takes the approach that exploration and mining geologists must be expert in a number of fields including basic finance and economics logistics and pragmatic prospecting Readers will find material on all these topics and more The book's nine chapters include Introduction Exploration and Geology Techniques Ore Reserve Estimation Feasibility Studies and Project Financing Planning and Design of Surface Mines Mine Operations Mine Capital and Operating Costs Management and Organization and Case Studies The book is fully indexed

Marine Geo-Hazards in China Yin-can YE, 2017-06-22 *Marine Geo Hazards in China* the first book to focus specifically on potential marine geological hazards in China includes 19 chapters with varying focus on key issues surrounding the topic Early chapters discuss the historical background research progress and geological environments in China's sea area Next multiple chapters present special topics on geological hazards in China's sea area including its disaster pregnant environment mechanisms of disaster change the development regularity and disaster formation process and existing or potential dangers and countermeasures Final chapters present the latest information on the distribution development assessment and risk analysis of marine geological hazards This book is an important source of information for government and local policymakers environmental and marine scientists and engineers Discusses the background current research and systematically reviews the history major advances in the studies in the field and demonstrates the development prospect of this subject Contains and summarizes the author's longstanding achievements in the field as well as includes a wide range of researches conducted both locally and overseas Systematically summarizes the basic characteristics of the distribution and development of the main types of geological hazards in China's seas Puts forward the scheme of marine geological disaster regionalization of China and is significant for researches in other countries or regions

Neutrosophic Sets and Systems, vol. 56/2023 Florentin Smarandache, Mohamed Abdel-Basset, Said Broumi, 2024-03-20 Neutrosophic Sets and Systems has been created for publications on advanced studies

in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc Neutrosophy is a new branch of philosophy that studies the origin nature and scope of neutralities as well as their interactions with different ideational spectra This theory considers every notion or idea together with its opposite or negation and with their spectrum of neutralities in between them i e notions or ideas supporting neither nor The and ideas together are referred to as Neutrosophy is a generalization of Hegel s dialectics the last one is based on and only According to this theory every idea tends to be neutralized and balanced by and ideas as a state of equilibrium In a classical way are disjoint two by two But since in many cases the borders between notions are vague imprecise Sorites it is possible that and of course have common parts two by two or even all three of them as well Neutrosophic Set and Neutrosophic Logic are generalizations of the fuzzy set and respectively fuzzy logic especially of intuitionistic fuzzy set and respectively intuitionistic fuzzy logic In neutrosophic logic a proposition has a degree of truth T a degree of indeterminacy I and a degree of falsity F where T, I, F are standard or non standard subsets of $[0, 1]$ Neutrosophic Probability is a generalization of the classical probability and imprecise probability Neutrosophic Statistics is a generalization of the classical statistics

Interaction between human activities and

geo-environment for sustainable development Xuanmei Fan,Xiaoyan Zhao,Xiangjun Pei,Filippo Catani,Yunhui

Zhang,2023-03-02 **Risk Management for Geotechnical Engineering** Duncan C. Wyllie,2023-11-24 Risk Management for Geotechnical Engineering Hazard Risks and Consequences covers the application of risk management for soil and rock engineering projects and the preparation of reliable designs that account for uncertainty The book discusses qualitative risk assessments based on experience and judgement as well as quantitative risk analysis using probabilistic methods and decision analysis to optimize designs Many examples are included of how risk management can be applied to geotechnical engineering with case studies presented for debris flows rock falls tunnel stability and dam foundations Also discussed are issues of liability insurance and contract law related to geotechnical engineering This comprehensive book is ideal for practicing geotechnical engineers addressing the challenges of making decisions in circumstances where uncertainties exist in site conditions material properties and analysis methods

Slope Instability Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Slope Instability**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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