

Mechanical weathering – talus slopes



Slopes And Weathering

**National Research Council, Division on
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Slopes And Weathering:

Slopes and Weathering R. J. Small, M. J. Clark, 1982 **Weathering as a Predisposing Factor to Slope Movements** Domenico Calcaterra, Mario Parise, 2010 This volume is intended to provide an up to date overview of the approaches methodologies and techniques devoted to better understanding of the weathering conditions of rock masses on slopes According to the local conditions a variety of slope movements may take place and involve weathered rock masses Shallow and rapid soil slips evolving to debris flows are probably the most common type of slope movement At the same time deep seated intermittent landslides can also affect large volumes of weathered rocks and soils Despite the high frequency of landslides in weathered materials and the damage and casualties they repeatedly cause little is known about the relationship between weathering and slope movements This book presents worldwide case studies where a variety of geological and geomorphological settings are discussed The content is divided into three sections the first is devoted to broad aspects of the weathering landslide processes the second and third sections include papers dealing with igneous metamorphic and sedimentary weathered rocks respectively *Slopes and Weathering* Michael J. Clark, R. John Small, 1982-09-23

Geography David Waugh, 2000 Plate tectonics Earthquakes and volcanoes Weathering and slopes Glaciation Coasts Deserts Weather and climate Soils Biogeography Population Urbanisation Farming and food supply Rural land use Energy resources Manufacturing industries Transport and interdependence World development Geomorphology of Desert Environments Anthony J. Parsons, A. D. Abrahams, 2009-03-20 About one third of the Earth's land surface experiences a desert climate and this area supports approximately 15% of the planet's population This percentage continues to grow and with this growth comes the need to acquire and apply an understanding of desert geomorphology Such an understanding is vital in managing scarce and fragile resources and in mitigating natural hazards This authoritative reference book is comprehensive in its coverage of the geomorphology of desert environments and is arranged thematically It begins with an overview of global deserts proceeds through treatments of weathering hillslopes rivers piedmonts lake basins and aeolian surfaces and concludes with a discussion of the role of climatic change Written by a team of international authors all of whom are active in the field the chapters cover the spectrum of desert geomorphology *Sapping Features of the Colorado Plateau* Alan D. Howard, R. Craig Kochel, Henry E. Holt, 1988 Slope Stability Engineering J.C. Jiang, Yagi Norio, T. Yamagami, 2021-07-28 This collection of papers covers a wide range of relevant issues and aspects of slope stability engineering from both practical and scientific points of view from the Proceedings of the International Symposium on Slope Stability Engineering Is Shikoku 99 Matsuyama Shikoku Japan 8-11 November 1999 Active Tectonics National Research Council, Division on Engineering and Physical Sciences, Commission on Physical Sciences, Mathematics, and Applications, Geophysics Research Forum, Geophysics Study Committee, 1986-01-01 Over 250 000 people were killed in the Tangshan China earthquake of 1976 and other less active tectonic processes can disrupt river channels or have a grave

impact on repositories of radioactive wastes Since tectonic processes can be critical to many human activities the Geophysics Study Committee Panel on Active Tectonics has presented an evaluation of the current state of knowledge about tectonic events which include not only earthquakes but volcanic eruptions and similar events This book addresses three main topics the tectonic processes and their rates methods of identifying and evaluating active tectonics and the effects of active tectonics on society Slope Analysis R Chowdury,2012-12-02 Slope Analysis summarizes the fundamental principles of slope analysis It explores not only the similarities but also the differences in rock slopes and soil slopes and it presents alternative methods of analysis new concepts and new approaches to analysis The book introduces both natural and man made slopes the nature of soils and rocks geomorphology geology and the aims of slope analysis These topics are followed by chapters about stress and strain shear strength of rock and soils and progressive failure of slopes This book also presents limit equilibrium methods I and II which are the planar failure surfaces and slip surfaces of arbitrary shape respectively It also includes stress analysis and slope stability natural slope analysis and a brief review on plasticity and shear band analysis Before presenting its conclusions the book discusses special aspects of slope analysis such as earthquake analysis pseudo static analysis dynamic analysis and anisotropy in addition to Newmark s approach *Geotechnical Slope Analysis* Robin Chowdhury,Gautam Bhattacharya,Subhadeep Metya,2023-11-30 This second edition of Geotechnical Slope Analysis is an updated version of the original scholarly book In this edition concepts and applications have been thoroughly revised In particular the Initial Stress Approach has been extended to 2D problems in a more rigorous manner Additional solved numerical examples have been added in several chapters More importantly the meaning of the results is explored through interpretation The influence of initial stresses pore water pressures and seismic forces has been explored not only on performance indicators such as the Factor of Safety but also on the location of critical slip surfaces In addition to these factors it is shown that the chosen method of analysis may also have a significant influence on the location of the critical slip surface Student exercises have been included in some chapters with a view to encouraging further study and research and reference is often made to case studies of particular importance The best features of the book have been retained with continued emphasis on both deterministic and probabilistic approaches for quantifying slope performance The traditional performance indicator such as Factor of Safety can be complemented by the calculation of the Reliability Index and the Probability of Failure This book focuses on research studies concerning slope behaviour the occurrence of landslides and the use of alternative methods of analysis and interpretation The importance of uncertainties in slope performance and more broadly in geotechnical engineering is emphasised This book will be valuable to undergraduate and senior students of civil mining and geological engineering as well as to academic teachers and instructors and also to researchers practising geotechnical engineers and consultants *Mountain Rivers* Ellen E. Wohl,2013-04 A comprehensive synthesis of current knowledge on mountain rivers Discussions on fluvial geomorphology and physical processes from the scale of drainage

network development to bedload movement complement summaries of mountain river chemistry and ecology Contains chapters on drainage basins channel processes channel biota and human impact Includes bandw photos Of interest to hydrologists geomorphologists civil and environmental engineers and resource planners Wohl has a Ph D in geology and has done extensive fieldwork in North America Asia and Australia Annotation copyrighted by Book News Inc Portland OR

Slope Engineering for Mountain Roads Gareth J. Hearn, 2011 Provides a complete guide to the study design construction and management of landslide and slope engineering measures for mountain roads with emphasis on low cost The geographical focus is on the tropics and sub tropics but is also highly relevant to other regions where heavy rain steep slopes and weak soils and rocks combine to create slope instability The causes and mechanisms of landslides are described and the hazards they pose to mountain roads are illustrated Methods of desk study field mapping and ground investigation are reviewed and illustrated with emphasis on geomorphological and engineering geological techniques The design and construction of alignments earthworks drainage retaining structures the stabilization of soil slopes and rock slopes and the control of erosion on slopes and in streams covered Slope management as part of road maintenance and operation is reviewed and procedures for risk assessment and works prioritization are described *Treatise on Geomorphology*, 2013-02-27 The changing focus and approach of geomorphic research suggests that the time is opportune for a summary of the state of discipline The number of peer reviewed papers published in geomorphic journals has grown steadily for more than two decades and more importantly the diversity of authors with respect to geographic location and disciplinary background geography geology ecology civil engineering computer science geographic information science and others has expanded dramatically As more good minds are drawn to geomorphology and the breadth of the peer reviewed literature grows an effective summary of contemporary geomorphic knowledge becomes increasingly difficult The fourteen volumes of this *Treatise on Geomorphology* will provide an important reference for users from undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic Information on the historical development of diverse topics within geomorphology provides context for ongoing research discussion of research strategies equipment and field methods laboratory experiments and numerical simulations reflect the multiple approaches to understanding Earth's surfaces and summaries of outstanding research questions highlight future challenges and suggest productive new avenues for research Our future ability to adapt to geomorphic changes in the critical zone very much hinges upon how well landform scientists comprehend the dynamics of Earth's diverse surfaces This *Treatise on Geomorphology* provides a useful synthesis of the state of the discipline as well as highlighting productive research directions that Educators and students researchers will find useful Geomorphology has advanced greatly in the last 10 years to become a very interdisciplinary field Undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of

a particular topic will find the answers they need in this broad reference work which has been designed and written to accommodate their diverse backgrounds and levels of understanding Editor in Chief Prof J F Shroder of the University of Nebraska at Omaha is past president of the QG G section of the Geological Society of America and present Trustee of the GSA Foundation while being well respected in the geomorphology research community and having won numerous awards in the field A host of noted international geomorphologists have contributed state of the art chapters to the work Readers can be guaranteed that every chapter in this extensive work has been critically reviewed for consistency and accuracy by the World expert Volume Editors and by the Editor in Chief himself No other reference work exists in the area of Geomorphology that offers the breadth and depth of information contained in this 14 volume masterpiece From the foundations and history of geomorphology through to geomorphological innovations and computer modelling and the past and future states of landform science no stone has been left unturned

Failure Mechanism and Stability Analysis of Rock Slope Ke Zhang, 2020-07-02 This book presents in depth coverage of laboratory experiments theories modeling techniques and practices for the analysis and design of rock slopes in complex geological settings It addresses new concepts in connection with the kinematical element method discontinuity kinematical element method integrated karst cave stochastic model limit equilibrium method improved strength reduction method and fracture mechanics method taking into account the relevant geological features The book is chiefly intended as a reference guide for geotechnical engineering and engineering geology professionals and as a textbook for related graduate courses

Landscapes and Landforms of Israel Amos Frumkin, Nurit Shtober-Zisu, 2024-03-19 This edited book will bring together a collection of works that comprehensively address the various landforms of Israel and how their evolution has been shaped over time by multiple geomorphic agents Israel is a small country with highly diverse landscapes and climates this overview of the most prominent landscapes will describe the processes origins and the environmental significance of those landscapes The sites described in this book include lowlands to mountains the rift valley and desert to Mediterranean zones along with long term interactions between their geomorphology and people which largely contributed to modern landscapes The book will be relevant to those interested in the geology physical geography and history of Israel and the processes that shaped its unique landscapes

Tropical Residual Soils Engineering B.B.K. Huat, See Sew Gue, Faisal Haji Ali, 2004-06-15 Focused on tropical areas and their unique problems and issues this work examines all aspects of residual soils engineering including both theoretical and practical aspects This book gives the practitioner a thorough understanding of the characteristics of these soil types their formation and their material properties while guidelines on appli

... *The development of slopes* Walther Penck, 1924

Mountain Environments John Gerrard, 1990 Using examples chosen from a variety of geographical settings and scales A J Gerrard presents a novel approach to the study of mountain environments He provides a framework in which mountains as special environments can be studied and shows how no matter what their location or origin all mountain regions share common characteristics and

undergo similar shaping processes Gerrard's integrated approach combines ecological climatological hydrological volcanic and environmental management concerns in a systematic treatment of mountain geomorphology He begins by examining the special nature of mountains including a new classification of mountain types He discusses mountain ecosystems stressing the interaction between biota soil climate relief and geology examines the high energy systems of weathering and mass movement and analyzes the role of rivers and hydrology and the processes of slope evolution Two chapters are devoted to the particular characteristics of glaciation and vulcanism in mountain formation The book concludes with a discussion of the special problems that human use of mountain regions create including engineering natural hazards soil erosion and the concept of integrated development A J Gerrard is Lecturer in Geography at the University of Birmingham England

Geomorphology and Natural Hazards M. Morisawa, 2013-10-22 The theme of this proceedings volume is the latest research on geomorphic characteristics and processes associated with natural hazards Presentations cover a gamut of types of disasters throughout the world describing research and applications of studies in the U S and other countries The book begins with a collection of papers giving a basic background and philosophy of approaching an understanding of natural disasters These are followed by papers on natural hazards in coastal areas mountainous regions landslides flooding and the detrimental effects of permafrost The book should prove valuable in gaining an insight of natural hazards and their geomorphic relations which is imperative for prudent environmental planning in coping with disasters Regolith Geology and Geomorphology G. Taylor, R. A. Eggleton, 2001-08-30 Providing fundamental discussion of regolith properties and chemistry this book considers many landscape situations and features whilst linking process to position geochemistry and time Presenting information from an Australian perspective it provides new insights into the subject which are developed away from the yoke of traditional Northern Hemisphere ideas and concepts Presents a new approach to the problems of understanding regolith geology and landscapes Presents the general aspects and principles of regolith Chapters present views on landscapes and their evolution the nature of minerals the behaviour of water at a landscape level and the exploration of water behaviour at various scales in regolith materials Investigates methods of conveying information about regolith via maps and in GIS packages

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