



Slope Morphology

**Stanley Alfred Schumm, M. Paul
Mosley**



Slope Morphology:

Slope Morphology Stanley Alfred Schumm, M. Paul Mosley, 1973 **Slope movements of the earthflow type - engineering-geological investigation, geotechnical assessment and modelling of the source areas on the basis of case studies from the Alps and Apennines** Winfried Schädler, 2011 This thesis deals with natural slope movements of the earthflow type The main thematic focus of the work is on the investigation of the so called source areas located in the upper parts of the affected slopes On the basis of two present day and socio economically relevant case studies in Northern Italy selected aspects of the source areas were investigated This was done mainly by means of numerical modelling In one case study the numerical modelling concept was combined with an inverse modelling strategy Generally the results obtained in both case studies demonstrate the importance of detailed field investigations as basis for numerical models The determinateness of the modelled problem depends on the availability of such data which is limited by the large dimensions of the investigated phenomena and by the heterogeneity of the involved materials as well as the uncertainties underlying the determination of the geometry of these problems *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 Tectonics Michel Jaboyedoff, 2011 Usually geomorphology structural geology and engineering geology provide descriptions of slope instability in quite distinctive ways This new research is based on combined approaches to providing an integrated view of the operative slope processes Slope Tectonics is the term adopted here to refer to those deformations that are induced or fully controlled by the slope morphology and that generate features which can be compared to those created by tectonic activity Such deformation can be induced by the stress field in a slope which is mainly controlled by gravity topography and the geological setting created by the geodynamic context The content of this book includes slope deformation characterization using morphology and evolution mechanical behaviour of the material modes of failure and collapse influence of lithology and structural features and the role played by controlling factors *Submarine Slope Systems* David Mark Hodgson, Stephen S. Flint, 2005 Submarine slopes provide the critical link between shallow water and deep water sedimentary environments They accumulate a sensitive record of sediment supply accommodation creation destruction and tectonic processes during basin filling There is a complex stratigraphic response to the interplay between parameters that control the evolution of submarine slope systems e g slope gradient topographic complexity sediment flux and calibre base level change tectonic setting and post depositional sediment remobilization processes The increased understanding of

submarine slope systems has been driven partly by the discovery of large hydrocarbon fields in morphologically complex slope settings such as the Gulf of Mexico and offshore West Africa and has led to detailed case studies and improved generic models for their evolution This volume brings together research papers from modern outcrop and subsurface settings to highlight these recent advances in understanding of the stratigraphic evolution of submarine slope systems *Geology and Geophysics Program Summary for FY ...*, 1994 **Slope Morphology** Schumm, 1973-07-01 *Land Surface Evaluation for Engineering Practice* Dr. James S. Griffiths, 2001 This volume presents a collection of papers on techniques and case studies in land surface evaluation for engineering practice written by specialist practitioners in the field The volume arose out of deliberations by the Second Working Party on Land Surface Evaluation set up by the engineering group of the Geological Society in January 1997 and chaired by Dr J S Griffiths The book provides examples of cost effective methods for collecting land surface and near surface data prior to carrying further detailed ground investigations of engineering sites

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 *Landslides and Engineered Slopes. Experience, Theory and Practice* Stefano Aversa, Leonardo Cascini, Luciano Picarelli, Claudio Scavia, 2018-04-17 Landslides and Engineered Slopes Experience Theory and Practice contains the invited lectures and all papers presented at the 12th International Symposium on Landslides Naples Italy 12-19 June 2016 The book aims to emphasize the relationship between landslides and other natural hazards Hence three of the main sessions focus on Volcanic induced landslides Earthquake induced landslides and Weather induced landslides respectively while the fourth main session deals with Human induced landslides Some papers presented in a special session devoted to Subaerial and submarine landslide processes and hazard and in a Young Session complete the book Landslides and Engineered Slopes Experience Theory and Practice underlines the importance of the classic approach of modern science which moves from experience to theory as the basic instrument to study landslides Experience is the key to understand the natural phenomena focusing on all the factors that play a major role Theory is the instrument to manage the data provided by experience following a

mathematical approach this allows not only to clarify the nature and the deep causes of phenomena but mostly to predict future and if required manage similar events Practical benefits from the results of theory to protect people and man made works Landslides and Engineered Slopes Experience Theory and Practice is useful to scientists and practitioners working in the areas of rock and soil mechanics geotechnical engineering engineering geology and geology U.S. Geological Survey Bulletin ,1983 **Developments in Mineral Deposit Modeling** ,1992 **Collected Reprints** ,1978 **Submarine Landslides** William C. Schwab,Homa J. Lee,David C. Twichell,1993 **Collected Reprints, 1979** ,1980 Soil and Environmental Science Dictionary E.G. Gregorich,L. W. Turchenek,M.R. Carter,Denis A. Angers,2001-06-22 The lingo of soil science is a language unto itself Soil and Environmental Science Dictionary is a glossary of terms used in soil and environmental science including terms from related disciplines Designed for teachers students researchers and others interested or involved in environmental sciences related to soils this compilation includes a **A Guide to Information Sources in the Geographical Sciences** Stephen Goddard,1983-01-01 Geography is a wide ranging discipline and the number of information sources available is truly enormous These include printed books and journal articles maps satellite photographs archives statistical information and much else One particular problem facing geographers is that when one studies a foreign country information may be available only in the foreign country and difficult to obtain This book discusses the information sources available to geographers *Mountain Rivers Revisited* Ellen Wohl,2013-05-28 Published by the American Geophysical Union as part of the Water Resources Monograph Series Volume 19 What are the forms and processes characteristic of mountain rivers and how do we know them Mountain Rivers Revisited an expanded and updated version of the earlier volume Mountain Rivers answers these questions and more Here is the only comprehensive synthesis of current knowledge about mountain rivers available While continuing to focus on physical process and form in mountain rivers the text also addresses the influences of tectonics climate and land use on rivers as well as water chemistry hyporheic exchange and riparian and aquatic ecology With its numerous illustrations and references hydrologists geomorphologists civil and environmental engineers ecologists resource planners and their students will find this book an essential resource Ellen Wohl received her Ph D in geology in 1988 from the University of Arizona Since then she has worked primarily on mountain and bedrock rivers in diverse environments Understanding and Reducing Landslide Disaster Risk Željko Arbanas,Peter T. Bobrowsky,Kazuo Konagai,Kyoji Sassa,Kaoru Takara,2020-12-20 This book is a part of ICL new book series ICL Contribution to Landslide Disaster Risk Reduction founded in 2019 Peer reviewed papers submitted to the Fifth World Landslide Forum were published in six volumes of this book series This book contains the following parts Impact of Large Ground Deformations near Seismic Faults on Critically Important Civil Infrastructures Recent Progress in the Landslide Initiating Science Earth Observation and Machine Learning in Landslide Science General Landslide Studies Professor eljko Arbanas is the Vice President of International Consortium on Landslides He is a Professor of Faculty of Civil Engineering University of

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Seafloor Geomorphology as Benthic Habitat Peter Harris, Elaine Baker, 2011-11-21 The conservation of marine benthic biodiversity is a recognised goal of a number of national and international programs such as the United Nations Convention on Biodiversity CBD In order to attain this goal information is needed about the distribution of life in the ocean so that spatial conservation measures such as marine protected areas MPAs can be designed to maximise protection within boundaries of acceptable dimensions Ideally a map would be produced that showed the distribution of benthic biodiversity to enable the efficient design of MPAs The dilemma is that such maps do not exist for most areas and it is not possible at present to predict the spatial distribution of all marine life using the sparse biological information currently available Knowledge of the geomorphology and biogeography of the seafloor has improved markedly over the past 10 years Using multibeam sonar the benthic ecology of submarine features such as fjords sand banks coral reefs seamounts canyons mud volcanoes and spreading ridges has been revealed in unprecedented detail This book provides a synthesis of seabed geomorphology and benthic habitats based on the most recent up to date information Introductory chapters explain the drivers that underpin the need for benthic habitat maps including threats to ocean health the habitat mapping approach based on principles of biogeography and benthic ecology and seabed geomorphic classification schemes Case studies from around the world are then presented They represent a range of seabed features where detailed bathymetric maps have been combined with seabed video and sampling to yield an integrated picture of the benthic communities that are associated with different types of benthic habitat The final chapter examines critical knowledge gaps and future directions for benthic habitat mapping research Reviews and compares the different methodologies currently being used Includes global case studies Provides geological expertise into what has traditionally been a biological discipline

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