



Slope Morphology

Ellen Wohl



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 *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 Monitoring, Early Warning and Mitigation of Natural and Engineered Slopes, volume III Wen Nie,Haijun Qiu,Afshin Asadi,2024-08-20 Natural and engineered slopes are widely distributed worldwide including mountain slopes highway slopes mine slopes reservoir dams etc These slopes could become unstable due to natural factors or human activities causing catastrophic loss of life and infrastructure destruction Therefore these slopes require constant monitoring to provide early warning and enable mitigation Advanced monitoring equipment information technology and multidisciplinary interaction theories have created new opportunities and challenges in this discipline Recently advanced monitoring devices information technologies and multidisciplinary intersection theories have contributed to the monitoring early warning and mitigation of natural and engineered slopes However effective and efficient monitoring precise early warning low cost and low time consuming remediation and reliable risk assessment remain obstacles This Research Topic aims to present the most recent innovative advancements and state of the art natural and engineered slope monitoring early warning mitigation and risk assessment 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 Rijeka Croatia He is the Assistant Editor in Chief of International Journal Landslides Professor Peter Bobrowsky is the President of International Consortium on Landslides He is a Senior Scientist of Geological Survey of Canada Ottawa Canada Professor Kazuo Konagai is Professor Emeritus at the University of Tokyo and Principal Researcher at the ICL Headquarters He serves as the Secretary General of the Fifth World Landslide Forum Professor Kyoji Sassa is the Founding President and the Secretary General of the International Consortium on Landslides ICL He has been the Editor in Chief of International Journal Landslides since its foundation in 2004 Professor Kaoru Takara is the Executive Director of International Consortium on Landslides He is a Professor and Dean of Graduate School of Advanced Integrated Studies GSAIS in Human Survivability Shishu Kan Kyoto University 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

Applications of Photogrammetry for Environmental Research Francesco Mancini, Riccardo Salvini, 2020-01-24 The book presents a collection of papers focused on recent progress in key areas of photogrammetry for environmental research Applications oriented to the understanding of natural phenomena and quantitative processes using dataset from photogrammetry from satellite to unmanned aerial vehicle images and terrestrial laser scanning also by a diachronic approach are reported The book covers topics of interest of many disciplines from geography geomorphology engineering geology geotechnology including landscape description and coastal studies Mains issues faced by the book are related to applications on coastal monitoring using multitemporal aerial images and investigations on geomorphological hazard by the joint use of proximal photogrammetry terrestrial and aerial laser scanning aimed to the reconstruction of detailed surface topography and successive 2D 3D numerical simulations for rock slope stability analyses Results reported in the book bring into evidence the fundamental role of multitemporal surveys and reliable reconstruction of morphologies from photogrammetry and laser scanning as support to environmental researches

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