



Debris Flow

Matthias Jakob, Oldrich Hungr



Debris Flow:

Debris-flow Hazards and Related Phenomena Matthias Jakob, Oldrich Hungr, 2005-03-01 With climate change and deforestation debris flows and debris avalanches have become the most significant landslide hazards in many countries In recent years there have been numerous debris flow avalanches in Southern Europe South America and the Indian Subcontinent resulting in major catastrophes and large loss of life This is therefore a major high profile problem for the world s governments and for the engineers and scientists concerned Matthias Jakob and Oldrich Hungr are ideally suited to edit this book Matthias Jakob has worked on debris flow for over a decade and has had numerous papers published on the topic as well as working as a consultant on debris flow for municipal and provincial governments Oldrich Hungr has worked on site investigations on debris flow avalanches and rockfall with emphasis on slope stability analysis and evaluation of risks to roads in built up areas He has also developed mathematical models for landslide dynamic analysis They have invited world renowned experts to joint them in this book *Advances in Debris-flow Science and Practice* Matthias Jakob, Scott McDougall, Paul Santi, 2024-03-28 This book provides a summary of the state of the art of all facets of debris flow science and practice and is designed to be a comprehensive technical reference for practitioners and a state of the art research overview for scientists It is richly illustrated with equations graphs photos and tables The book allows students practitioners and regulators to get a sense of the current state of the art in this science Currently there are 2 to 3 papers published every week on some aspects of debris flow science This creates a bewildering amount of literature that cannot be captured by a single individual This book provides a comprehensive overview of all facets to date including initial hazard assessments detailed quantitative risk assessments debris flow warning systems debris flow mitigation structure designs and failures of mitigation works as well as new topics such as climate change effects on debris flows *Debris Flow* Tamotsu Takahashi, 2007-05-03 Comprehensive account treating both theoretical and applied aspects of debris flow The text begins with a discussion of fundamental mechanical aspects such as flow characteristics type classification mechanics occurrence and development fully developed flow and deposition processes The second part of the book sheds light on the application of theory in relation to computer simulated reproductions of real disasters Attention is paid to debris flow controlling structures design effectiveness and performance soft countermeasure problems such as identification of debris flow prone ravines and the prediction of occurrence by the concept of precipitation threshold The qualitative and fundamental character of this book makes it an excellent textbook for graduate courses in debris flow and it is recommended reading for professionals in engineering geosciences and water resources who are concerned with mechanics and countermeasures of debris flow Keywords stony debris flow viscous debris flo landslide induced debris flow hazard zone mapping grid type sabo dam Debris Flow G. Lorenzini, N. Mazza, 2004-02-05 Debris flows are among the most frequent and destructive of all geomorphic processes mainly affecting mountainous areas in a range of morphoclimatic environments and the damage they cause is often

devastating Increased anthropisation calls for improvements in the criteria used to identify debris flow risk areas and the prevention measures adopted One of the main difficulties encountered by the approaches illustrated in previous literature is linked to their possible validation either in the field or in a laboratory environment The choice of a rheological model is extremely important This book provides methodological details which can be applied to investigations on debris flow mechanics capable of providing an accurate representation of the phenomenology *Fine-Grained Turbidite Systems* Arnold H. Bouma, Charles Gomer Stone, 2000-04-25 Accompanying CD ROM includes additional illustrations and material

Guidelines for the Geologic Evaluation of Debris-flow Hazards on Alluvial Fans in Utah Richard E. Giraud, 2005-06 The Utah Geological Survey UGS developed these guidelines to help geologists evaluate debris flow hazards on alluvial fans to ensure safe development Debris flow hazard evaluations are particularly important because alluvial fans are the primary sites of debris flow deposition and are also favored sites for development The purpose of a debris flow hazard evaluation is to characterize the hazard and provide design parameters for risk reduction The UGS recommends critical facilities and structures for human occupancy not be placed in active debris flow travel and deposition areas unless the risk is reduced to an acceptable level These guidelines use the characteristics of alluvial fan deposits as well as drainage basin and feeder channel sediment supply conditions to evaluate debris flow hazards The hazard evaluation relies on the geomorphology sedimentology and stratigraphy of existing alluvial fan deposits Analysis of alluvial fan deposits provides the geologic basis for estimating frequency and potential volume of debris flows and describing debris flow behavior Drainage basin and feeder channel characteristics determine potential debris flow susceptibility and the volume of stored channel sediment available for sediment bulking in future flows **Debris-flow Hazard in the Immediate Vicinity of Ouray, Colorado** Candace L. Jochim, 1986 Debris Flow Tamotsu Takahashi, 1991 **Debris Flow** Tamotsu Takahashi, 2014-03-10 This is the 2nd edition of one of the most comprehensive accounts of debris flow describing both theoretical and applied aspects In the first part the fundamental mechanical characteristics are discussed including flow characteristics type classification mechanics occurrence and development fully developed flow and deposition processes The second part sheds light on the application of the theories presented in computer simulated reproductions of real disasters Special attention is paid to debris flow controlling structures design effectiveness and performance soft countermeasure problems such as the identification of debris flow prone ravines and the prediction of occurrence by means of precipitation threshold This new edition has been wholly revised and updated and now includes a new chapter on sediment runoff models that include debris flow processes and new sections concerning landslides The qualitative and fundamental character of this text makes it an excellent textbook for graduate level courses and it is recommended reading for professionals in engineering geosciences and water resources who are working on the mechanics and countermeasures of debris flow The original Japanese version of this book was awarded the Publishing Culture Prize by the Japanese Society of Civil Engineers 2004 Tamotsu Takahashi is Professor

Emeritus at the University of Kyoto In addition to his academic positions he is the Director of the Association for Disaster Prevention Research in Kyoto Professor Takahashi began his career in flood dynamics research and increasingly focused on debris flow and flood hazards He has been honoured with several awards from the Japan Society of Civil Engineers and the Japan Society of Erosion Control Engineering An earlier book entitled Debris Flow by Tamotsu Takahashi in the book series of the International Association of Hydraulic Engineering and Research was published by Balkema Publishers now a part of the Taylor Francis Group

NOAA-USGS Debris-Flow Warning System--final Report NOAA-USGS Debris Flow Task Force,2005 **Mechanisms and Early Warning Strategies of Geotechnical Disasters** Bisheng Wu,Wenzhuo Cao,Guangjin Wang,2024-01-29 Since the beginning of the 21st century global environmental problems have become increasingly prominent and extreme weather events have become more frequent The irrational development and excessive construction of underground space have also led to various disasters such as landslides collapses debris flows and ground collapses According to the data released in the National Geological Disaster Bulletin 133899 geological disasters have occurred in China from 2009 to 2019 of which landslides accounted for 71% collapses for 19% and debris flows for 8% and ground collapses for 2% The number of casualties and economic losses caused by rock and soil disasters are the greatest in the world Therefore a good understanding of disaster causing mechanisms of rock and soil has a strong theoretical and practical significance for the safe construction of diversified geotechnical projects

2016GUIDELINES FOR INVESTIGATING GEOLOGIC HAZARDS AND PREPARING ENGINEERING-GEOLOGY REPORTS, WITH A SUGGESTED APPROACH TO GEOLOGIC-HAZARD ORDINANCES IN UTAH Steve D. Bowman,William R.

Lund,2016-09-21 The purpose of these guidelines for investigating geologic hazards and preparing engineering geology reports is to provide recommendations for appropriate minimum investigative techniques standards and report content to ensure adequate geologic site characterization and geologic hazard investigations to protect public safety and facilitate risk reduction Such investigations provide important information on site geologic conditions that may affect or be affected by development as well as the type and severity of geologic hazards at a site and recommend solutions to mitigate the effects and the cost of the hazards both at the time of construction and over the life of the development The accompanying suggested approach to geologic hazard ordinances and school site investigation guidelines are intended as an aid for land use planning and regulation by local Utah jurisdictions and school districts respectively Geologic hazards that are not accounted for in project planning and design often result in additional unforeseen construction and or future maintenance costs and possible injury or death

Monitoring, Simulation, Prevention and Remediation of Dense and Debris Flows IV C. A. Brebbia,D. De Wrachien,S. Mambretti,2012 The book contains papers presented at the fourth in a series of biennial International Conferences dealing with the Monitoring Simulation Prevention and Remediation of Dense and Debris Flow The papers deal with erosion and slope instability sediment transport debris flow and debris flood data acquisition

debris flow phenomenology and laboratory tests using the most advanced state of the art methodologies in monitoring modelling mechanics hazard prediction and risk assessment of debris flow phenomena **Monitoring, Simulation, Prevention and Remediation of Dense Debris Flows II** D. De Wrachien, Mario Aristide Lenzi, C. A. Brebbia, 2008 This book contains papers presented at Second International Conference on Debris Flow including all aspects of Debris Flow Monitoring Modelling Hazard Assessment Mitigation Measures Case Studies and Extreme Events Erosion Slope Instability and Sediment Transport held in the New Forest UK in 2008 and organised by the Wessex Institute of Technology with the co sponsorship of EurAgEng European Society of Agricultural Engineers and CIGR International Commission of Agricultural Engineering Due to the increased frequency with which debris and hyper concentrated flows occur and the impact they have on both the environment and human life in recent years these extreme events and related processes have attracted increasing attention from research groups land planning and management professionals The objective of the Meeting was to provide a forum for engineers scientists and managers from laboratories industry government and academia to interchange knowledge and expertise in the field of dense and hyper concentrated flows A full understanding of these phenomena leads to a new integrated risk management approach which provides measures for preventing a hazard turning into a natural disaster

Monitoring, early warning and mitigation of natural and engineered slopes - volume II ,2023-05-16

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 *Integration of State-of-art Techniques for Landslide Hazard Assessment and for the Mitigation Caused by the Subsequent Multimodal Disaster* Yih-Chin Tai, Norifumi Hotta, Chih-Yu Kuo, Marc-Henri Derron, Rou-Fei Chen, 2022-10-07

Encyclopedia of Soil Science Rattan Lal, 2017-01-11 New and Improved Global Edition Three Volume Set A ready reference addressing a multitude of soil and soil management concerns the highly anticipated and widely expanded third edition of Encyclopedia of Soil Science now spans three volumes and covers ground on a global scale A definitive guide designed for both coursework and self study this latest version describes every branch of soil science and delves into trans

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