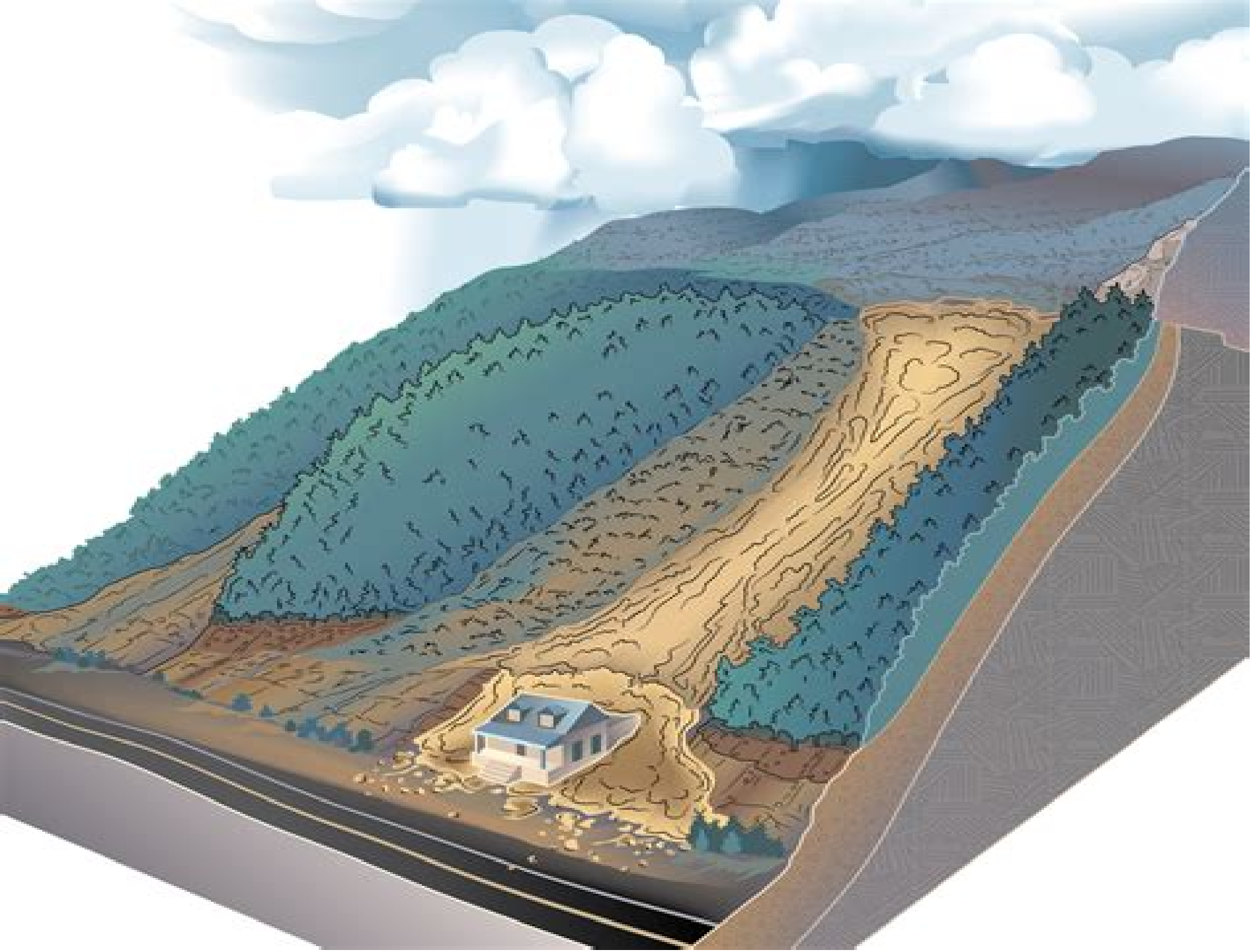




Risk Abatement Debris Flows And Debris Avalanches

Matthias Jakob, Oldrich Hungr



Risk Abatement Debris Flows And Debris Avalanches:

Debris-flow Hazards and Related Phenomena Matthias Jakob, Oldrich Hungr, 2007-12-26 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 Multi Hazard Identification and Risk Assessment ,1997 *Landslide Risk Assessment* David Cruden, Robin Fell, 2018-05-02 The 25 papers collected together in this volume present comprehensive coverage of all major aspects of landslide risk assessment including the risk assessment framework and methods for estimating probability of landsliding vulnerability and risk Landslide Hazard and Risk Thomas Glade, Malcolm G. Anderson, Michael J. Crozier, 2006-01-04 With the increasing need to take an holistic view of landslide hazard and risk this book overviews the concept of risk research and addresses the sociological and psychological issues resulting from landslides Its integrated approach offers understanding and ability for concerned organisations landowners land managers insurance companies and researchers to develop risk management solutions Global case studies illustrate a variety of integrated approaches and a concluding section provides specifications and contexts for the next generation of process models Landslide Risk Management Oldrich Hungr, Robin Fell, Réjean Couture, Erik Eberhardt, 2005-06-30 Landslide Risk Management comprises the proceedings of the International Conference on Landslide Risk Management held in Vancouver Canada from May 31 to June 3 2005 The first part of the book contains state of the art and invited lectures prepared by teams of authors selected for their experience in specific topics assigned to them by the JTC Landslides John J. Clague, Douglas Stead, 2012-08-23 Landslides have geological causes but can be triggered by natural processes rainfall snowmelt erosion and earthquakes or by human actions such as agriculture and construction Research aimed at better understanding slope stability and failure has accelerated in recent years accompanied by basic field research and numerical modeling of slope failure processes mechanisms of debris movement and landslide causes and triggers Written by seventy five world leading researchers and practitioners this book provides a state of the art summary of landslide science It features both field geology and engineering approaches as well as modeling of slope failure and run out using a variety of numerical codes It is illustrated with international case studies integrating geological geotechnical and remote sensing studies and

includes recent slope investigations in North America Europe and Asia This is an essential reference for researchers and graduate students in geomorphology engineering geology geotechnical engineering and geophysics as well as professionals in natural hazard analysis

Mountain Risks: From Prediction to Management and Governance Theo Van Asch,Jordi Corominas,Stefan Greiving,Jean-Philippe Malet,Simone Sterlacchini,2013-09-30 This book offers a cross disciplinary treatment of the rapidly growing field of integrated approaches in risk assessment in mountainous areas All major aspects related to hazard and risk assessment risk management and governance are illustrated with a wide range of case studies The first part of the book focuses on new techniques for assessing the natural hazards of different types of mass movements State of the art techniques for morphological characterization and monitoring of displacements are described Computational advances are covered to explain the process systems and to quantify the hazards of fast and slow moving landslides In the second part of the book methodologies are included for assessing the impact of these natural hazards on the society in terms of risks In this part methodologies for defining the vulnerability of the elements at risk are shown and the use of run out models for risk assessment of the dangerous rapid mass movements are evaluated The third part of the book focuses on the response of society towards the problems of hazard and risk It highlights the role of spatial planning early warning systems and evacuation plans for risk management It establishes practical thresholds for acceptable and tolerable risks and emphasizes the importance of education and communication to society Audience The book is of interest to a wide range of experts from related disciplines practitioners and stakeholders to demonstrate the importance of an integrated approach for all aspects of risks in mountainous areas

Numerical Methods for Reliability and Safety Assessment Seifedine Kadry,Abdelkhalak El Hami,2014-09-30 This book offers unique insight on structural safety and reliability by combining computational methods that address multiphysics problems involving multiple equations describing different physical phenomena and multiscale problems involving discrete sub problems that together describe important aspects of a system at multiple scales The book examines a range of engineering domains and problems using dynamic analysis nonlinear methods error estimation finite element analysis and other computational techniques This book also Introduces novel numerical methods Illustrates new practical applications Examines recent engineering applications Presents up to date theoretical results Offers perspective relevant to a wide audience including teaching faculty graduate students researchers and practicing engineers

Rock Avalanches O. Adrian Pfiffner,John Joseph Clague,Reginald Leonhard Hermanns,Tim Davies,2021-04-07

Landslide Hazards, Risks, and Disasters Tim Davies,Nick Rosser,2021-10-17 Landslide Hazards Risks and Disasters Second Edition makes a broad but detailed examination of major aspects of mass movements and their consequences and provides knowledge to form the basis for more complete and accurate monitoring prediction preparedness and reduction of the impacts of landslides on society The frequency and intensity of landslide hazards and disasters has consistently increased over the past century and this trend will continue as society increasingly utilises steep landscapes

Landslides and related phenomena can be triggered by other hazard and disaster processes such as earthquakes tsunamis volcanic eruptions and wildfires and they can also cause other hazards and disasters making them a complex multi disciplinary challenge This new edition of Landslide Hazards Risks and Disasters is updated and includes new chapters covering additional topics including rockfalls landslide interactions and impacts and geomorphic perspectives Knowledge understanding and the ability to model landslide processes are becoming increasingly important challenges for society extends its occupation of increasingly hilly and mountainous terrain making this book a key resource for educators researchers and disaster managers in geophysics geology and environmental science Provides an interdisciplinary perspective on the geological seismological physical environmental and social impacts of landslides Presents the latest research on causality impacts and landslide preparedness and mitigation Includes numerous tables maps diagrams illustrations photographs and video captures of hazardous processes Discusses steps for planning for and responding to landslide hazards risks and disasters

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