

Debris Flow Hazards And Related Phenomena

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Potential of Southwestern Costilla County, ColoradoIndustrial Fire Hazards and an Encyclopedia of Hazardous MaterialsLive Articles on Special HazardsFlood and Related Debris-flow
Hazards Along Principal Drainages, Carson City Quadrangle, Nevada"Code of Massachusetts regulations, 2016""Code of Massachusetts regulations, 2013""Code of Massachusetts
regulations, 2010""Code of Massachusetts regulations, 2014""Code of Massachusetts regulations, 2006" Matthias Jakob Cheng-lung Chen Dieter Rickenmann Richard E. Giraud Gerald F.
Wieczorek William F. Case Matthias Jakob Nevada Bureau of Mines and Geology Beth L. Widmann Gorham Dana Nevada Bureau of Mines and Geology
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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 hungar 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 hungar 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 join them in this book

these proceedings contain papers presented at the fourth international conference on debris flow hazards mitigation mechanics prediction and assessment held in chengdu china september 10 13 2007 the papers cover a wide range of topics on debris flow science and engineering including the factors triggering debris flows geomorphic effects mechanics of debris flows e g rheology fluvial mechanisms erosion and deposition processes numerical modelling various debris flow experiments landslide induced debris flows assessment of debris flow hazards and risk field observations and measurements monitoring and alert systems structural and non structural countermeasures against debris flow hazards and case studies the papers reflect the latest developments and advances in debris flow research several studies discuss the development and application of geographic information system gis and remote sensing technologies in debris flow hazard risk assessment timely topics presented in a few papers also include the development of new or innovative techniques for debris flow monitoring and alert systems especially an infra sound acoustic sensor for detecting debris flows many case studies illustrate a wide variety of debris flow hazards and related phenomena as well as their

hazardous effects on human activities and settlements the papers are printed in black and white and are also found in full on the accompanying cd rom including all full colour illustrations

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

this proceeding presents the results of an international forum of scientists engineers and academics on various aspects of debris flow hazards mitigation topics include debris flow response of watersheds recently burned by fire structures for controlling debris flows systems for detecting and monitoring debris flows case studies of assessing debris flow hazards and numerical simulation and modeling of debris flows

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

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