

Debris Flow Hazards And Related Phenomena

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Matthias Jakob Cheng-lung Chen Gerald F. Wieczorek Matthias Jakob William F. Case John M. Hoffmann Emery Roe Hayhurst Beth L. Widmann Ohio. State Board of Health Kathleen Bourton Gorham Dana Lorinda Ann Dengler Masami Nakagawa Kenneth D. Kerri Colorado Geological Survey

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

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 in cluding 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 infrasound 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

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

powders and grains is an international scientific conference held every 4 years that brings together engineers and physicists interested in the micromechanics of granular media powders and grains the meetings are organized by aemmg association pour l etude de la micromecanique des milieux granulaires previous meetings were held in clement ferrand france 1989 birmingham england 1993 durham usa 1997 sendai japan 2001 and in stuttgart germany 2005 powders grains distinguishes itself from other meetings on granular materials in two ways 1 it brings together both engineers and physicists 2 it emphasizes the micromechanics of granular materials the conference program includes contributions from experts around the world related to the general topic of granular media

this manual is designed to train operators in the safe and effective operation of industrial waste treatment plants it covers the importance and responsibilities of an industrial wastewater treatment plant operator information is provided on the importance of being an operator safety waste minimization physical chemical treatment process treatment of metal wastestreams and instrumentation

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