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Sixty-five papers cover a wide range of topics from engineering applications to

theoretical developments in the areas of embankment and slope stability, underground cavity design and mining; dynamic analysis, soil and structure interaction, and coupled processes and fluid flow.

Manual

Large landslides
affect many mountain
valleys in Europe.
They are
characterised by a
low probability of
evolution into a
catastrophic event but
can have very large
impacts on
population,
infrastructures and

the environment. This impact is becoming more and more pronounced due to increasing tourism and the construction of new roads and railways in mountainous areas. Methodologies for the assessment and mitigation of risks are therefore a major issue. Since very

large slope movements are quite often directly or indirectly implicated in disasters, like landslides, secondary slides or debris flow, their early identification is essential to an adequate risk assessment of the zones involved. The assessment of risks

due to large landslides in the alpine environment is the first activity carried out within the IMIRILAND Project. This project involves seven partners representing five European countries and is funded by the European Commission within the Fifth Framework

Program (Research and Technological Development, Activities of a Generic Nature: the Fight against Major Natural and Technological Hazards). The objective of this cooperation is to develop risk management methodologies and mitigation strategies

that can be applied at a European level as useful tools for administrators and land users. To this end, by means of a multidisciplinary approach the hazard analysis of some selected large landslides was examined with a particular focus on geological,

geomorphological and geo-mechanical methods. In addition, vulnerability and risk analyses were carried out to enable the consideration of direct and indirect consequences, as well as technical and social impacts. The developed risk assessment procedure was

critically examined through application to some selected landslides. Identification and Mitigation of Large Landslide Risks in Europe – Advances in Risk Assessment presents the risk assessment procedure developed and the case studies that were performed

within the framework of the IMIRILAND Project. It is edited by Arpa Piemonte, Ecole Polytechnique Fédérale de Lausanne and Politecnico di Torino This book is intended for geotechnical engineers, engineering geologists, geomorphologists and

planners who are involved in landslides and in assessing the stability of natural slopes.

Rock dynamics has become one of the most important topics in the field of rock mechanics and rock engineering, and involves a wide variety of topics, from

earthquake engineering, blasting, impacts, failure of rock engineering structures as well as the occurrence and prediction of earthquakes, induced seismicity, rock bursts to non-destructive testing and explorations. Rock dynamics has wide applications in civil

and infrastructural, resources and energy, geological and environmental engineering, geothermal energy, and earthquake hazard management, and has become one of the most topical areas. 2019 Rock Dynamics Summit contains 8 keynote addresses and 128

regular full papers that were presented at the 2019 Rock Dynamics Summit (2019 RDS, Okinawa, Japan, 7-11 May 2019), a specialized conference jointly organized by the Rock Dynamics Committee of the Japanese Society of Civil Engineers (JSCE-RDC), the Japanese

Society for Rock Mechanics (JSRM), and which was supported by the International Society for Rock Mechanics and Rock Engineering (ISRM) and the Turkish National Society for Rock Mechanics (TNSRM). The contributions cover a wide range of topics on the dynamic

behavior of rock and rock masses and scientific and engineering applications, and include: - Laboratory tests on Dynamic Responses of Rocks and Rock Masses / Fracturing of Rocks and Associated Strong Motions - Estimation Procedures and

Numerical 3 Techniques of Strong Motions Associated with the Rupture of Earth's Crust and Some Strong Motion - Dynamic Response and Stability of Rock Foundations, Underground Excavations in Rock, Rock Slopes Dynamic Responses and Stability of Stone

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Histories of Failure Phenomenon in Rock Engineering 2019 Rock Dynamics Summit contains the state-of-the-art in rock dynamics, and will be invaluable to professionals and academics interested in the latest advances in new techniques for experiments, analytical and

numerical modelling as well as monitoring in dynamics of rocks and rock engineering structures.

Novel mathematical and modeling approaches to problems in graded materials, biological materials, fluid mechanics and more Covers

nanomechanics, multi-scale modeling, interface mechanics and microstructure This series volume contains 128 not previously published research presentations on using nonlinear mechanics to understand and model a wide variety of materials, including

polymers, metals and composites, as well as subcellular and cellular tissues. Focus is on numerical and physics approaches to representing multiscale relationships within complex solids and fluids systems, with applications in materials science, energy storage,

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The papers in these two volumes were presented at the International Conference on "NexGen

Technologies for Mining and Fuel Industries" [NxGnMiFu-2017] in New Delhi from February 15-17, 2017, organized by CSIR-Central Institute of Mining and Fuel Research, Dhanbad, India. The proceedings include the contributions from authors across the

globe on the latest research on mining and fuel technologies. The major issues focused on are: Innovative Mining Technology, Rock Mechanics and Stability Analysis, Advances in Explosives and Blasting, Mine Safety and Risk Management,

Computer Simulation and Mine Automation, Natural Resource Management for Sustainable Development, Environmental Impacts and Remediation, Paste Fill Technology and Waste Utilisation, Fly Ash Management, Clean Coal Initiatives, Mineral Processing

and Coal Beneficiation, Quality Coal for Power Generation and Conventional and Non-conventional Fuels and Gases. This collection of contemporary articles contains unique knowledge, case studies, ideas and insights, a must-have for researchers and

engineers working in the areas of mining technologies and fuel sciences.

The International Committee on Large Dams (ICOLD) held its 26th International Congress in Vienna, Austria (1-7 July 2018). The

proceedings of the congress focus on four main questions: 1. Reservoir sedimentation and sustainable development; 2. Safety and risk analysis; 3. Geology and dams, and 4. Small dams and levees. The book thoroughly discusses these questions and

is indispensable for academics, engineers and professionals involved or interested in engineering, hydraulic engineering and related disciplines.

A comprehensive, one-stop synthesis of landslide science, for researchers and graduate students in

geomorphology, engineering geology and geophysics.

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