

## Landslides In The Thick Loess Terrain Of North West China

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Surface topography at the Hanford Site is the result of the uplift of anticlinal ridges, Pleistocene cataclysmic flooding, Holocene eolian activity, and landslides (Delaney et al. 1991).

A lavishly illustrated study of landslides and debris flows on theLoess Plateau of north-central China where dense rural populationand human activity has greatly increased landslide hazard. The Loess Plateau lies in the middle reaches of the Yellow Riverand there are a number of cities housing more than a millionpeople. Landslides are triggered by heavy rainstorms andearthquakes have been a recurrent hazard in the loess terrain forever two millennia. The contributors to this book set out with a number of goalsincluding: \* establishing the role of bedrock relief in landsliding \* studying the nature of the hydrological system within the loesslopes \* characterising the modes of failure of the loess fabric \* producing a dynamically-based classification of loesslandslides \* 'ultimately' establishing criteria for a simple warning systemfor loess slope failure, together with an advisory scheme for localpopulation response to landslide warnings. This book includes over forty colour maps unique in their contentand coverage, showing for the first time the detailed distributionof landslides in the thick loess terrain of eastern Gansu Province,North China.

This volume contains peer-reviewed papers from the Third World Landslide Forum organized by the International Consortium on Landslides (ICL) in June 2014. The complete collection of papers from the Forum is published in three full-color volumes and one mono-color volume.

This book is a part of ICL new book series "ICL Contribution to Landslide Disaster Risk Reduction" founded in 2019. Peer-reviewed papers submitted to the Fifth World landslide Forum were published in six volumes of this book series. This book contains the followings: • Keynotes • Landslide detection, recognition and mapping • Landslide susceptibility assessment and modelling • Landslide size statistics and temporal modelling • Data and information for landslide disaster mitigation • Vulnerability to landslides of people, communities and the built environment Dr. Fausto Guzzetti is General Director of Office III - Technical and Scientific Activities for Risk Forecasting and Prevention, Department of Civil Protection, Italian Presidency of the Council of Ministers, on leave from the Italian National Research Council. Prof. Snje\u0161ana Mihaljic Arbanas is a Full Professor of the Faculty of Mining, Geology and Petroleum Engineering of the University of Zagreb, Croatia. She is the Chair of ICL Network Committee. Paola Reichenbach is a Senior Researcher of the Research Institute for Geo-Hydrological Protection, an institute of the Italian National Research Council (IRPI-CNR), Perugia, Italy. Prof. Kyoji Sassa is the Founding President and the Secretary-General of the International Consortium on Landslides (ICL). He has been the Editor-in-Chief of International Journal Landslides since its foundation in 2004. Prof. Peter Bobrowsky is the President of the International Consortium on Landslides. He is a Senior Scientist of Geological Survey of Canada, Ottawa, Canada. Prof. Kaoru Takara is the Executive Director of the International Consortium on Landslides. He is a Professor and Dean of Graduate School of Advanced Integrated Studies (GSAIS) in Human Survivability (Shishu-Kan), Kyoto University.

Based on contributions to the first General Assembly of the International Consortium on Landslides, this reference and status report emphasizes the mechanisms of different types of landslides, landslide risk analysis, and sustainable disaster management. It comprises the achievements of the ICL over the past three years, since the Kyoto assembly. It consists of three parts: research results of the International Programme on Landslides (IPL); contributions on landslide risk analysis; and articles on sustainable disaster management. In addition, the history of the ICL activities (under the support of UNESCO, WMO, FAO, UN/ISDR, and UNU) is recounted to create a comprehensive overview of international activity on landslides. The contributions reflect a wide range of topics and concerns, ranging from field studies, identification of objects of cultural heritage at landslide risk, as well as landslide countermeasures.

This book is one out of 8 IAEG XII Congress volumes, and deals with Landslide processes, including: field data and monitoring techniques, prediction and forecasting of landslide occurrence, regional landslide inventories and dating studies, modeling of slope instabilities and secondary hazards (e.g. impulse waves and landslide-induced tsunamis, landslide dam failures and breaching), hazard and risk assessment, earthquake and rainfall induced landslides, instabilities of volcanic edifices, remedial works and mitigation measures, development of innovative stabilization techniques and applicability to specific engineering geological conditions, use of geophysical techniques for landslide characterization and investigation of triggering mechanisms. Focuses is given to innovative techniques, well documented case studies in different environments, critical components of engineering geological and geotechnical investigations, hydrological and hydrogeological investigations, remote sensing and geophysical techniques, modeling of triggering, collapse, run out and landslide reactivation, geotechnical design and construction procedures in landslide zones, interaction of landslides with structures and infrastructures and possibility of domino effects. The Engineering Geology for Society and Territory volumes of the IAEG XII Congress held in Torino from September 15-19, 2014, analyze the dynamic role of engineering geology in our changing world and build on the four main themes of the congress: environment, processes, issues, and approaches. The congress topics and subject areas of the 8 IAEG XII Congress volumes are: Climate Change and Engineering Geology. Landslide Processes. River Basins, Reservoir Sedimentation and Water Resources. Marine and Coastal Processes. Urban Geology, Sustainable Planning and Landscape Exploitation. Applied Geology for Major Engineering Projects. Education, Professional Ethics and Public Recognition of Engineering Geology. Preservation of Cultural Heritage.

Most landslides are triggered by rainfall. In previous studies, slope stability is often evaluated based on the infiltration analysis. Hydro-mechanical coupling is significant to rainfall-caused landslide evolution. This book covers theoretical models of unsaturated infiltration, and provides hydro-mechanical models for rainfall-induced landslides. The influences of rainfall patterns, boundary conditions, layered structures, and SMCC hysteresis on the coupled unsaturated infiltration and deformation are discussed. Laboratory testing of rainfall-induced landslides is performed to study the developing process of landslide upon rainfall infiltration. The results provide a better understanding of rainfall-induced landslides.

This book aims to assist in choosing ecotechnological solutions for slopes that are prone to a variety of mass movements e.g. shallow failure or erosion. The book reviews the types of problematic slopes that may occur and describes briefly the nature of mass movements and the causes of these movements. There is focus on the use of vegetation to stabilize soil on slopes prone to mass movements. The book also introduces new ecotechnological methods, and case studies are discussed.

This book is a part of ICL new book series "ICL Contribution to Landslide Disaster Risk Reduction" founded in 2019. Peer-reviewed papers submitted to the Fifth World Landslide Forum were published in six volumes of this book series. This book contains the following parts: • Impact of Large Ground Deformations near Seismic Faults on Critically Important Civil Infrastructures • Recent Progress in the Landslide Initiating Science • Earth Observation and Machine Learning in Landslide Science • General Landslide Studies Professor \u0160eljko Arbanas is the Vice President of International Consortium on Landslides. He is a Professor of Faculty of Civil Engineering, University of Rijeka, Croatia. He is the Assistant Editor-in-Chief of International Journal Landslides. Professor Peter Bobrowsky is the President of International Consortium on Landslides. He is a Senior Scientist of Geological Survey of Canada, Ottawa, Canada. Professor Kazuo Konagai is Professor Emeritus at the University of Tokyo and Principal Researcher at the ICL Headquarters. He serves as the Secretary-General of the Fifth World Landslide Forum. Professor Kyoji Sassa is the Founding President and the Secretary-General of the International Consortium on Landslides (ICL). He has been the Editor-in-Chief of International Journal Landslides since its foundation in 2004. Professor Kaoru Takara is the Executive Director of International Consortium on Landslides. He is a Professor and Dean of Graduate School of Advanced Integrated Studies (GSAIS) in Human Survivability (Shishu-Kan), Kyoto University.

Geomorphology, the discipline which analyzes the history and nature of the earth's surface, deals with the landforms produced by erosion, weathering, deposition, transport and tectonic processes. In recent decades there have been major developments in the discipline and these are reflected in this major Encyclopedia, the first such reference work in the field to be published for thirty-five years. Encyclopedia of Geomorphology has been produced in association with the International Association of Geomorphologists (IAG) and has a truly global perspective. The entries have been written by an international editorial team of contributors, drawn from over thirty countries, who are all among the leading experts in the discipline. In two lavishly illustrated volumes, Encyclopedia contains nearly 700 alphabetically organized entries to provide a comprehensive guide both to specific landforms and to the major types of geomorphological processes that create them. The Encyclopedia also demonstrates the major developments that have taken place in recent years in our knowledge of tectonic and climatic changes and in the use of new techniques such as modelling, remote sensing and process measurement. Older concepts, however, are not forgotten and provide an historical perspective on the development of ideas. Both accessible and authoritative, Encyclopedia of Geomorphology is destined to become the definitive resource for students, researchers and applied practitioners in the field of geomorphology and the cognate disciplines of geography, earth science, sedimentology and environmental science.

This volume documents advances in our knowledge of catastrophic landslides, providing a worldwide survey of catastrophic landslide events. It draws on South America to illustrate dramatically the impact of these phenomena on human populations. The occurrence of catastrophic landslides, including site-specific insights, is shown through six events of the past 20 years. Several other chapters focus on the mechanisms involved with catastrophic landslides both in relation to geologic factors in a particular geographic area as well as to specific geologic processes.

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