

**SOFTWARE FOR
ENGINEERING
CONTROL OF
LANDSLIDE AND TUNNELLING
HAZARDS**



Bhawani Singh
R.K. Goel

Software For Engineering Control Of Landslide And Tunnelling Hazards

**Mohd Johari Mohd Yusof, Junwen
Zhang**



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Software for Engineering Control of Landslide and Tunnelling Hazards Bhawani Singh, 2002 Software for Engineering Control of Landslide and Tunnelling Hazards Bhawani Singh, R.K. Goel, 2002-01-01 This practical study comprises eighteen practical and field tested software packages on landslide in soil and rock and a further six on tunnels complete with source programs user manuals and worked examples Using these software packages this book illustrates how geomaterials in hazardous areas can be analyzed for potential failure and how predictions based on realistic input data can be generated Tunnelling in Weak Rocks Bhawani Singh, R K Goel, 2006-09-26 Vast knowledge has been developed in the area of tunnelling in weak rocks over the years and this book bridges an important gap by bringing all the information together for the benefit of the tunnelling Industry In particular tunnelling in poor conditions is a huge challenge for engineers and designers and this book tackles all typical problems headon Topics covered include classification approach design approaches for site specific grounds a new invention on shielded tunnel boring machine case histories tunnel mechanics risk engineering and management culture Based on extensive field research experiences in Himalayan region and Alps Exclusive chapters on tunnelling hazards squeezing ground conditions a full detailed case study swelling ground conditions critical state rock mechanics etc Supported by over 180 figures and 90 tables of data and test examples with solutions **Engineering Rock Mass Classification** R K Goel, Bhawani Singh, 2011-08-09 Rock mass classification methods are commonly used at the preliminary design stages of a construction project when there is very little information It forms the bases for design and estimation of the required amount and type of rock support and groundwater control measures Encompassing nearly all aspects of rock mass classifications in detail Civil Engineering Rock Mass Classification Tunnelling Foundations and Landsides provides construction engineers and managers with extensive practical knowledge which is time tested in the projects in Himalaya and other parts of the world in complex geological conditions Rock mass classification is an essential element of feasibility studies for any near surface construction project prior to any excavation or disturbances made to earth Written by an author team with over 50 years of experience in some of the most difficult mining regions of the world Civil Engineering Rock Mass Classification Tunnelling Foundations and Landsides provides construction engineers construction managers and mining engineers with the tools and methods to gather geotechnical data either from rock cuts drifts or core and process the information for subsequent analysis The goal is to use effective mapping techniques to obtain data can be used as input for any of the established rock classification systems The book covers all of the commonly used classification methods including Barton's Q and Q systems Bieniawski's RMR Laubscher's MRMR and Hoek's and GSI systems With this book in hand engineers will be able to gather geotechnical data either from rock cuts drifts or core and process the information for subsequent analysis Rich with international case studies and worked out equations the focus of the book is on the practical gathering information for purposes of analysis and design Identify the most significant

parameters influencing the behaviour of a rock mass Divide a particular rock mass formulation into groups of similar behaviour rock mass classes of varying quality Provide a basis of understanding the characteristics of each rock mass class Relate the experience of rock conditions at one site to the conditions and experience encountered at others Derive quantitative data and guidelines for engineering design Provide common basis for communication between engineers and geologists *Earth System Processes and Disaster Management* Rajiv Sinha,Rasik Ravindra,2012-08-14 One of the fundamental goals of earth system science research is to adopt a more holistic view of the earth as a system comprising different domains The Society of Earth Scientists has brought out this multidisciplinary publication to emphasize the need of an integrated approach to understand the Earth system It focuses on natural disasters and in particular on climate change and its effects in Asia and understanding the significance of these developments within the context of the paleo climatic record The later sections of the book then focus on other types of natural disasters as well as those induced by human interaction with our environment Underground Infrastructures R K Goel,Bhawani Singh,Jian Zhao,2012-06-19 Underground facilities such as tunnels sewer water and gas networks form the backbone of the economic life of the modern city In densely populated areas where the demands for transportation and services are rapidly increasing and the construction of new roads and railways are prohibited the construction of a tunnel might be the only alternative Brief and readable this reference is based on a combined 75 years of field experience and places emphasis is on simple practical rules for designing and planning underground infrastructures The books begins with a clear and rigorous exposition of the classification of underground space important considerations such as geological and engineering and underground planning This is followed by self contained chapters concerning applications for underground water storage underground car parks underground metros underground storages of food items crude oil and explosives and highly cautious underground nuclear waste repositories Rail and road tunnels and TBM are described briefly Risk management in underground infrastructures is of vital importance Civil Engineers Mining Engineers and Geotechnical Engineers will find this book a valuable guide to designing and planning underground infrastructures both in terms of its applications Risk management method for underground infrastructures Vital tips for the underground storage of food water crude oil natural gas and munitions Provides design tips for Underground Parking Facilities Instruction for the designing planning and construction for underground Metros and road tunnels Planning and design of underground nuclear waste repositories Clearly explains the benefits and drawbacks of underground facilities Quick guide to the various modern mechanical underground parking options Explanation of construction planning and Risk management Places expert advice for planning and constructing projects at the finger tips *Structural Geology and Tectonics Field Guidebook—Volume 2* Soumyajit Mukherjee,2023-01-09 This book is the second volume of an edited work aiming to help novice geologists to explore terrains independently Geoscience fieldwork with focus on structural geology and tectonics has become more important in the last few years from

both academic and industrial perspectives This book also works as a resource material for batches of students or geological survey professionals undergoing training as parts of their course curriculum training Industry persons on the other hand can get a first hand idea about what to expect in the field in case no academic persons are available with the team This book focuses on structural geology and tectonics and compiles terrains from several regions of the globe This book also includes field guide chapters for primary sedimentary structures Rockfall Engineering Stéphane Lambert, François Nicot, 2013-02-07 Rockfall Engineering is an up to date international picture of the state of the art in rockfall engineering The three basic stages of rockfalls are considered the triggering stage the motion stage and the interaction with a structure stage along with contributions including structural characterization of cliffs remote monitoring stability analysis boulder propagation design of protection structures an risk assessment Academic contributions are illustrated by practical examples and completed by engineering contributions where practical purposes are thoroughly considered This title is intended for engineers students as well as researchers **Rock landslide risk assessment, stability analysis and monitoring for the development of early warning systems and reinforcement measures** Mowen Xie, Yan Du, Yujing Jiang, Bo Li, 2023-06-29 **Book Review Index**, 2004 Every 3rd issue is a quarterly cumulation **Advances in Water Resources & Hydraulic Engineering** Changkuan Zhang, Hongwu Tang, 2010-07-28 Advances in Water Resources and Hydraulic Engineering Proceedings of 16th IAHR APD Congress and 3rd Symposium of IAHR ISHS discusses some serious problems of sustainable development of human society related to water resources disaster caused by flooding or draught environment and ecology and introduces latest research in river engineering and fluvial processes estuarine and coastal hydraulics hydraulic structures and hydropower hydraulics etc The proceedings covers new research achievements in the Asian Pacific region in water resources environmental ecology river and coastal engineering which are especially important for developing countries all over the world This proceedings serves as a reference for researchers in the field of water resources water quality water pollution and water ecology Changkuan Zhang and Hongwu Tang both are professors at Hohai University China **Books In Print 2004-2005** Ed Bowker Staff, Staff Bowker, Ed, 2004 *Advances and Applications of Artificial Intelligence and Numerical Simulation in Risk Emergency Management and Treatment, volume II* Yunhui Zhang, Yihuai Zhang, Long Yan, Lei Xia, Chengyi Pu, 2024-09-13 This Research Topic is Volume II of a series The previous volume can be found here *Advances and Applications of Artificial Intelligence and Numerical Simulation in Risk Emergency Management and Treatment* Our world is composed of multidimensional and multifaceted risks In general geological environmental and ecological risks would exist in both natural and engineering situations such as karst desertification water inrush rock burst debris flow and landslide These risks have great safety threats to human survival In this regard risk emergency management and treatment REMT has become a pivotal topic addressing the national governance system and its governance capacity It underlines how to prevent and resolve grand security risks to timely respond to all kinds of disasters and accidents as well as

to safeguard people's lives and property and social stability

Failure Analysis and Risk Assessment of Natural Disasters Through Machine Learning and Numerical Simulation, volume IV Faming Huang, Peng Zeng, Sansar Raj Meena, Jiawei Xie, 2025-08-26 Natural disasters which include landslides rock falls rainstorms floods and earthquakes appear as results of the progressive or extreme evolution of climatic tectonic and geomorphological processes and human engineering activities It is significant to explore the failure mechanism and carry out spatial modeling of these natural disasters due to their serious harm to the safety of people's lives and property Various advanced methods including successful remote sensing geographic information systems machine learning models and numerical simulation techniques are promising tools to analyze these complex disasters Machine Learning models such as neuro fuzzy logic decision trees artificial neural networks deep learning and evolutionary algorithms are characterized by their abilities to produce knowledge and discover hidden and unknown patterns and trends from large databases whereas remote sensing and Geographic Information Systems appear as significant technology equipped with tools for data manipulation and advanced mathematical modeling What is more numerical simulation can also be acknowledged as an advanced technology for discovering hidden failure mechanisms of disasters

Information Technology in Geo-engineering D. G. Toll, Hehua Zhu, Xiaojun Li, 2010 Information technology IT is now intrinsic to many aspects of our lives and this is no less so for the field of geo engineering where it is widely used This volume presents the proceedings of the First International Conference on Information Technology in Geo Engineering in Shanghai September 2010 The conference brought together engineers scientists researchers and educators to review new developments and IT advances in geo engineering and provided a forum for the discussion of future trends Information technology evolves constantly and the innovative concepts strategies and technologies which have sprung up are becoming ever more important to all aspects of geo engineering facilitating design processes improving construction efficiency and lowering maintenance costs These topics are among the many addressed here Of interest to all those involved in the field of geo engineering it is hoped that this volume will prove to be the first of a series to cover regular international conference on this increasingly important subject

Proceedings of the 2023 9th International Conference on Architectural, Civil and Hydraulic Engineering (ICACHE 2023) Dayong Li, Yu Zhang, Yalin Luan, 2023-12-27 This is an open access book As an annual conference held successfully in the past 8 years 2023 9th International Conference on Architectural Civil and Hydraulic Engineering ICACHE 2023 will be held by China University of Petroleum East China on October 13 15 2023 in Qingdao China ICACHE 2023 is hosted by China University of Petroleum East China and organized by College of Pipeline and Civil Engineering China University of Petroleum East China and supported by China University of Mining Technology Beijing Shandong University of Science and Technology Sun Yat sen University Central South University Fujian Agriculture and Forestry University Southeast University Eshragh Institute of Higher Education Shandong Chambroad Holding Group Co Ltd Qingdao Times Design Co Ltd The conference is an

international forum for the presentation of technological advances and research results in the fields of architecture civil and hydraulic engineering The conference will bring together leading researchers engineers and scientists in the domain of interest from around the world We warmly welcome previous and prospected authors submit your new research papers to ICACHE 2023 and share the valuable experiences with the scientist and scholars around the world *Advances in Civil Engineering: Structural Seismic Resistance, Monitoring and Detection* Mohd Johari Mohd Yusof,Junwen Zhang,2022-10-21 Advances in Civil Engineering Structural Seismic Resistance Monitoring and Detection is a collection of papers resulting from the conference on Structural Seismic Resistance Monitoring and Detection SSRMD 2022 Harbin China 21 23 January 2022 According to the development of many new seismic theories technologies and products the primary goal of this conference is to promote research and developmental activities in structural seismic resistance monitoring and detection Moreover another goal is to promote scientific information interchange between scholars from the top universities business associations research centers and high tech enterprises working all around the world The conference conducted in depth exchanges and discussions on relevant topics such as structural seismic resistance monitoring and detection aiming to provide an academic and technical communication platform for scholars and engineers engaged in scientific research and engineering practice in the field of civil engineering seismic resistance and engineering entity structure testing By sharing the research status of scientific research achievements and cutting edge technologies it helps scholars and engineers all over the world to comprehend the academic development trend and broaden research ideas So as to strengthen international academic research academic topics exchange and discussion and promoting the industrialization cooperation of academic achievements *Proceedings of the 2024 10th International Conference on Architectural, Civil and Hydraulic Engineering (ICACHE 2024)* Yu Zhang,Dayong Li,Yukun Zhang,Yalin Luan,2025-03-01 This is an open access book As an annual conference held successfully in the past 9 years 2024 10th International Conference on Architectural Civil and Hydraulic Engineering ICACHE 2024 will be held on October 25 27 2024 in Shenyang China The conference is an international forum for the presentation of technological advances and research results in the fields of architecture civil and hydraulic engineering The conference will bring together leading researchers engineers and scientists in the domain of interest from around the world We warmly welcome previous and prospected authors submit your new research papers to ICACHE 2024 and share the valuable experiences with the scientist and scholars around the world *Bulletin of the Atomic Scientists* ,1970-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **The Engineering Index Annual** ,1992 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current awareness new

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