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Applied Mechanics Reviews - 1994

Guidelines for Slope Performance Monitoring - Robert Sharon 2020-07-01
Although most mining companies utilise systems for slope monitoring, experience indicates that mining operations continue to be surprised by the occurrence of adverse geotechnical events. A comprehensive and robust performance monitoring system is an essential component of slope management in an open pit mining operation. The development of such a system requires considerable expertise to ensure the monitoring system is effective and reliable. Written by instrumentation experts and geotechnical practitioners, Guidelines for Slope Performance Monitoring is an initiative of the Large Open Pit (LOP) Project and the fifth book in the Guidelines for Open Pit Slope Design series. Its 10 chapters present the process of establishing and operating a slope monitoring system; the fundamentals of pit slope monitoring instrumentation and methods; monitoring system operation; data acquisition, management and analysis; and utilising and communicating monitoring results. The implications of increased automation of mining operations are also discussed, including the future requirements of performance monitoring. Guidelines for Slope Performance Monitoring summarises leading mine industry practice in monitoring system design, implementation, system management, data management and reporting, and provides guidance for engineers, geologists, technicians and others responsible for geotechnical risk management.

Slope Stability Analysis and Stabilization - Y. M. Cheng 2014-05-22
Includes Recommendations for Analysis, Design Practice, Design Charts, Tables, and More Using a unified approach to address a medley of engineering and construction problems, Slope Stability Analysis and Stabilization: New Methods and Insight, Second Edition provides helpful practical advice and design resources for the practicing engineer. This text examines a range of current methods for the analysis and design of slopes, and details the limitations of both limit equilibrium and the finite element method in the assessment of the stability of a slope. It also introduces a variety of alternative approaches for overcoming numerical non-convergence and the location of critical failure surfaces in two-dimensional and three-dimensional cases. What's New in the Second Edition: This latest edition builds on the concepts of the first edition and covers the case studies involved in slope stability analysis in greater detail. The book adds a chapter on the procedures involved in performing limit equilibrium analysis, as well as a chapter on the design and construction practice in Hong Kong. It includes more examples and illustrations on the distinct element of slope, the relation between limit equilibrium and plasticity theory, the fundamental connections between slope stability analysis and the bearing capacity problem, as well as the stability of the three-dimensional slope under patch load conditions. Addresses new concepts in three-dimensional stability analysis, finite element analysis, and the extension of slope stability problems to lateral earth pressure problems Offers a unified approach to engineering and construction problems, including slope stability, bearing capacity, and earth pressure behind retaining structures Emphasizes how to translate the conceptual design conceived in the design office into physical implementation on site in a holistic way Discusses problems that were discovered during the development of associated computer programs This text assesses the fundamental assumptions and limitations of stability analysis methods and computer modelling, and benefits students taking an elective course on slope stability, as well as geotechnical engineering professionals specializing in slope stability

Land Surface Evaluation for Engineering Practice - James S. Griffiths 2001
This volume presents a collection of papers on techniques and case studies in land surface evaluation for engineering practice written by specialist practitioners in the field. The volume arose out of deliberations by the Second Working Party on Land Surface Evaluation set up by the engineering group of the Geological Society in January 1997 and chaired by Dr J.S. Griffiths. The book provides examples of cost-effective methods for collecting land surface and near surface data prior to carrying further detailed ground investigations of engineering sites.

Engineering of Glacial Deposits - Barry G. Clarke 2017-07-14
At some time 30% of the world's land mass was covered by glaciers leaving substantial deposits of glacial soils under major conurbations in Europe, North and South America, New Zealand, Europe and Russia. For instance, 60% of the UK has been affected, leaving significant glacial deposits under major conurbations where two thirds of the population live. Glacial soils are composite soils with significant variations in composition and properties and are recognised as challenging soils to deal with. Understanding the environment in which they were formed and how this affects their behaviour are critical because they do not always conform to classic theories of soil mechanics. This book is aimed at designers and contractors working in the construction and extractive industries to help them mitigate construction hazards on, with or in glacial deposits. These soils increase risks to critical infrastructure which, in the UK includes the majority of the road and rail network, coastal defences such as the fastest eroding coastline in Europe and most of the water supply reservoirs. It brings together many years of experience of research into the behaviour of glacial deposits drawing upon published and unpublished case studies from industry. It draws on recent developments in understanding of the geological processes and the impact they have upon the engineering properties, construction processes and performance of geotechnical structures. Unlike other books on glaciation it brings together all the relevant disciplines in earth sciences and engineering to make it directly relevant to the construction industry.

Landslides: Evaluation and Stabilization/Glissement de Terrain: Evaluation et Stabilisation, Set of 2 Volumes - W. Lacerda 2004-06-15
These volumes comprise the Proceedings of the Ninth International Symposium on Landslides, held in Rio de Janeiro, Brazil, from June 28 to July 2, 2004. Information on the latest developments in Landslide Studies is presented by invited lecture reports, specialized panel contributions and over two hundred and forty technical papers, grouped in the

Encyclopedia of Geomorphology - Andrew Goudie 2013-04-15
"In recent decades there have been major developments in geomorphology and these are reflected in this major encyclopedia, the first such reference work in the field to be published for thirty-five years"--Provided by publisher

The Emergence of Unsaturated Soil Mechanics - National Research Council Canada 1999
This publication is an assemblage of selected papers that have been authored or co-authored by D.G. Fredlund. The substance of these papers documents the milestones of both the science of unsaturated soil

mechanincs and the career of the author during his tenure as a faculty member in the Department of Civil Engineering at the University of Saskatchewan, Saskatoon, Canada.

Geotechnics for Sustainable Infrastructure Development - Phung Duc Long 2019-11-28

This book presents 09 keynote and invited lectures and 177 technical papers from the 4th International Conference on Geotechnics for Sustainable Infrastructure Development, held on 28-29 Nov 2019 in Hanoi, Vietnam. The papers come from 35 countries of the five different continents, and are grouped in six conference themes: 1) Deep Foundations; 2) Tunnelling and Underground Spaces; 3) Ground Improvement; 4) Landslide and Erosion; 5) Geotechnical Modelling and Monitoring; and 6) Coastal Foundation Engineering. The keynote lectures are devoted by Prof. Harry Poulos (Australia), Prof. Adam Bezuijen (Belgium), Prof. Delwyn Fredlund (Canada), Prof. Lidija Zdravkovic (UK), Prof. Masaki Kitazume (Japan), and Prof. Mark Randolph (Australia). Four invited lectures are given by Prof. Charles Ng, ISSMGE President, Prof.Eun Chul Shin, ISSMGE Vice-President for Asia, Prof. Norikazu Shimizu (Japan), and Dr.Kenji Mori (Japan).

Reservoirs in a Changing World - British Dam Society. Conference 2002

This volume is the Proceedings from the 12th International Conference organised by the British Dam Society in September 2002.Reservoir safety is the key theme with many papers on the performance and rehabilitation of dams. The evolution of reservoirs in Ireland and the development of safety legislation in the UK are described. Risk assessment features in a number of papers as a method of assessing the safety of reservoirs. Several papers address the seismic assessment of dams and structures.

Understanding and Reducing Landslide Disaster Risk - Binod Tiwari 2020-12-22

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: • Five keynote lectures • Recent development in physical modeling of landslides • Recent development in numerical modeling of landslides • Recent development in soil and rock testing techniques, application and analysis methods • Recent advancements in the methods of slope stability and deformation analyses • Recent development in disaster risk assessment Prof. Binod Tiwari is a Vice President of the International Consortium on Landslides (ICL). He is the Associate Vice President for research and sponsored project and Professor of civil and environmental engineering at the California State University, Fullerton, California, USA. 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.

Slope Engineering - Ali Ismet Kanlı 2021-03-17

The field of slope engineering encompasses slope stability analysis and design, movement monitoring, and slope safety management and maintenance. Engineers in this field are concerned with landslides and other gravity-stimulated mass movements. Their job is to frequently evaluate existing and proposed slopes to assess their stability. As such, this book provides information on remote sensing in landslide detection, tunnel face stability, stability analysis and maintenance of cut slopes, design techniques in rock and soil engineering, statistical models for landslide risk mapping, slope stability analysis in open-pit mines, ecological engineering for slope stabilization, and asphalt-stabilized strengthening in open-pit coal mining.

Progress in Landslide Science - Kyoji Sassa 2007-12-29

This book presents current progress in landslide science and consists of four parts: progress in landslide science, landslide dynamics, landslide monitoring, and landslide risk assessment. It provides useful information to those working on landslide risk-mitigation planning. It can be also used as an introductory textbook for college students who wish to learn fundamental scientific achievements in the field of landslide disaster reduction.

Landscapes and Landforms of England and Wales - Andrew Goudie 2020-05-10

This book presents the geomorphological diversity of England and Wales. These regions are characterised by an extraordinary range of landforms and landscapes, reflecting both the occurrence of many different rock types and drastic climatic changes over the last few million years, including ice sheet expansion and decay. The book begins by providing the geological and geomorphological context needed in order to understand this diversity in a relatively small area. In turn, it presents nearly thirty case studies on specific landscapes and landforms, all of which are landmarks in the territory discussed. These include the famous coastal cliffs and landslides, granite tors of Dartmoor, formerly glaciated mountains of Snowdonia and the Lake District, karst of Yorkshire, and many others. The geomorphology of London and the Thames is also included. Providing a unique reference guide to the geomorphology of England and Wales, the book is lavishly illustrated with diagrams, colour maps and photos, and written in an easy-to-read style. The contributing authors are distinguished geomorphologists with extensive experience in research, writing and communicating science to the public. The book will not only be of interest to geoscientists, but will also benefit specialists in landscape research, geoconservation, tourism and environmental protection.

Engineering Geology and Construction - Fred G. Bell 2004-05-27

Winner of the 2004 Claire P. Holdredge Award of the Association of Engineering Geologists (USA). The only book to concentrate on the relationship between geology and its implications for construction, this book covers the full scope of the subject from site investigation through to the complexities of reservoirs and dam sites. Features include international case studies throughout, and summaries of accepted practice, plus sections on waste disposal, and contaminated land.

Soil Mechanics - Graham Barnes 2017-09-16

Now in its fourth edition, this popular textbook provides students with a clear understanding of the nature of soil and its behaviour, offering an insight into the application of principles to engineering solutions. It clearly relates theory to practice using a wide-range of case studies, and dozens of worked examples to show students how to tackle specific problems. A comprehensive companion website offers worked solutions to the exercises in the book, video interviews with practising engineers and a lecturer testbank. With its comprehensive coverage and accessible writing style, this book is ideal for students of all levels on courses in geotechnical engineering, civil engineering, highway engineering, environmental engineering and environmental management, and is also a handy guide for practitioners. New to this Edition: - Brand-new case studies from around the world, demonstrating real-life situations and solutions - Over 100 worked examples, giving an insight into how engineers tackle specific problems - A companion website providing an integrated series of video interviews with practising engineers - An extensive online testbank of questions for lecturers to use alongside the book

Lessons Learned from the Northridge Earthquake - United States. Congress. House. Committee on Science, Space, and Technology 1994

New Publications of the Geological Survey - Geological Survey (U.S.) 2000

Hidden Aspects of Urban Planning - Fiona Chow 2002

Growing urban populations have resulted in the development of marginal land and brownfield sites as well as increasing the desirability of maximum utilisation of underground space. As a result, there is an increasing need for urban planners and developers to understand the geotechnical and geo-environmental issues involved in urban construction. Hidden aspects of urban planning aims to raise the awareness of geotechnical and geoenvironmental issues among urban planners and within the urban planning frameworks across Europe.

Geotechnical Engineering - Ken K. S. Ho 2001

InCIEC 2013 - Rohana Hassan 2014-01-09

The special focus of this proceeding is to cover the areas of infrastructure engineering and sustainability management. The state-of-the art information in infrastructure and sustainable issues in engineering covers earthquake, bioremediation, synergistic management, timber engineering, flood management and intelligent transport systems. It provides precise information with regards to innovative research development in construction materials and structures in addition to a compilation of interdisciplinary finding combining nano-materials and engineering.

Landslide Analysis and Early Warning Systems - Benni Thiebes 2012-01-21

Recent landslide events demonstrate the need to improve landslide forecasting and early warning capabilities in order to reduce related risks and protect human lives. In this thesis, local and regional investigations were carried out to analyse landslide characteristics in the Swabian Alb region, and to develop prototypic landslide early warning systems. In the local study area, an extensive hydrological and slope movement monitoring system was installed on a seasonally reactivated landslide body located in Lichtenstein- Unterhausen. Monitoring data was analysed to assess the influence of rainfall and snow-melt on groundwater conditions, and the initiation of slope movements. The coupled hydrology-slope stability model CHASM was applied to detect areas most prone to slope failures, and to simulate slope stability using a variety of input data. Subsequently, CHASM was refined and two web-based applications were developed: a technical early warning system to constantly simulate slope stability integrating rainfall measurements, hydrological monitoring data and weather forecasts; and a decision-support system allowing for quick calculation of stability for freely selectable slope profiles. On the regional scale, available landslide inventory data were analysed for their use in evaluation of rainfall thresholds proposed in other studies. Adequate landslide events were selected and their triggering rainfall and snow-melting conditions were compared to intensity-duration and cumulative thresholds. Based on the results, a regional landslide early warning system was developed and implemented as a webbased application. Both, the local and the regional landslide early warning systems are part of a holistic and integrative early warning chain developed by the ILEWS project, and could easily be transferred to other landslide prone areas.

Coastal Geomorphology of Great Britain - V. J. May 2003

Highlights both the conservation value of the coastal geomorphology sites of Great Britain and the important role these sites play in the development of the science of geomorphology. Each chapter in this work includes descriptions of the landforms and gives interpretation of dynamics of the geomorphological systems operating within the sites.

Glissement de Terrain : Evaluation Et Stabilisation - Willy Alvarenga Lacerda 2004

New Publications of the U.S. Geological Survey - 2000

The Geotechnics of Hard Soils--soft Rocks - Aldo Evangelista 1998

Landslide Risk Assessment - David Cruden 2018-05-02

The 25 papers collected together in this volume present comprehensive coverage of all major aspects of landslide risk assessment, including the risk assessment framework, and methods for estimating probability of landsliding vulnerability and risk.

Landslide Hazard and Risk - Thomas Glade 2006-01-04

With the increasing need to take an holistic view of landslide hazard and risk, this book overviews the concept of risk research and addresses the sociological and psychological issues resulting from landslides. Its integrated approach offers understanding and ability for concerned organisations, landowners, land managers, insurance companies and researchers to develop risk management solutions. Global case studies illustrate a variety of integrated approaches, and a concluding section provides specifications and contexts for the next generation of process models.

Development and Application of Discontinuous Modelling for Rock Engineering - Ming Lu 2003-01-01

The thirty papers published in this book represent the latest developments in Discontinuous Deformation Analysis (DDA). The Numerical Manifold Method (NMM) and other numerical methods and their applications are also covered, as are the theoretical contributions of 3D DDA, modelling and visualization of 3D joint systems, and high-order NMM. Applications of these advances include the stability of underground works, rock slopes and boreholes.

Algorithms—Advances in Research and Application: 2012 Edition - 2012-12-26

Algorithms—Advances in Research and Application: 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Algorithms. The editors have built Algorithms—Advances in Research and Application: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Algorithms in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Algorithms—Advances in Research and Application: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Geological Hazards in the UK - D.P. Giles 2020-06-09

The UK is perhaps unique globally in that it presents the full spectrum of geological time, stratigraphy and associated lithologies within its boundaries. With this wide range of geological assemblages comes a wide range of geological hazards, whether they be geophysical (earthquakes, effects of volcanic eruptions, tsunami, landslides), geotechnical (collapsible, compressible, liquefiable, shearing, swelling and shrinking soils), geochemical (dissolution, radon and methane gas hazards) or georesource related (coal, chalk and other mineral extraction). An awareness of these hazards and the risks that they pose is a key requirement of the engineering geologist. The Geological Society considered that a Working Party Report would help to put the study and assessment of geohazards into the wider social context, helping the engineering geologist to better communicate the issues concerning geohazards in the UK to the client and the public. This volume sets out to define and explain these geohazards, to detail their detection, monitoring and management and to provide a basis for further research and understanding.

Engineering Geology and Geomorphology of Glaciated and Periglaciated Terrains - J.S. Griffiths 2017-10-18

The Engineering Group of the Geological Society Working Party brought together experts in glacial and periglacial geomorphology, Quaternary history, engineering geology and geotechnical engineering to establish best practice when working in former glaciated and periglaciated environments. The Working Party addressed outdated terminology and reviewed the latest academic research to provide an up-to-date understanding of glaciated and periglaciated terrains. This transformative, state-of-the-art volume is the outcome of five years of deliberation and synthesis by the Working Party. This is an essential reference text for practitioners, students and academics working in these challenging ground conditions. The narrative style, and a comprehensive glossary and photo-catalogue of active and relict sediments, structures and landforms make this material relevant and accessible to a wide readership.

Canadian Geotechnical Journal - 2010

Soil Strength and Slope Stability - J. Michael Duncan 2014-09-22

The definitive guide to the critical issue of slope stability and safety Soil Strength and Slope Stability, Second Edition presents the latest thinking and techniques in the assessment of natural and man-made slopes, and the factors that cause them to survive or crumble. Using clear, concise language and practical examples, the book explains the practical aspects of geotechnical engineering as applied to slopes and embankments. The new second edition includes a thorough discussion on the use of analysis software, providing the background to understand what the software is doing, along with several methods of manual analysis that allow readers to verify software results. The book also includes a new case study about Hurricane Katrina failures at 17th Street and London Avenue Canal, plus additional case studies that frame the principles and techniques described. Slope stability is a critical element of geotechnical engineering, involved in virtually every civil engineering project, especially highway development. Soil Strength and Slope Stability fills the gap in industry literature by providing practical information on the subject without including extraneous theory that may distract from the application. This balanced approach provides clear guidance for professionals in the field, while remaining comprehensive enough for use as a graduate-level text. Topics include: Mechanics of soil and limit equilibrium procedures Analyzing slope stability, rapid drawdown, and partial consolidation Safety, reliability, and stability analyses Reinforced slopes, stabilization, and repair The book also describes examples and causes of slope failure and stability conditions for analysis, and includes an appendix of slope stability charts. Given how vital slope stability is to public safety, a comprehensive resource for analysis and practical action is a valuable tool. Soil Strength and Slope Stability is the definitive guide to the subject, proving useful both in the classroom and in the field.

Geological Hazards - Fred G. Bell 2003-02-27

Natural hazards cost the global economy over $50,000 million per year. Two thirds of this is spent on damage repair, the remainder represents the cost of predicting, preventing and mitigating against disasters. Man-

made hazards such as groundwater pollution, subsidence and soil erosion add to this figure. Geological Hazards is the first book to consider both natural and man-made disasters in a single volume. All major geological hazards are examined. It presents a state-of-the art survey for students on civil engineering and physical geography courses, as well as researchers and practicing civil engineers. It examines methods of assessing, evaluating and combatting hazards, both natural and man-made. Richly illustrated, it views the subject from an international perspective.

Unsaturated Soil Mechanics in Engineering Practice - Delwyn G. Fredlund 2012-07-24

The definitive guide to unsaturated soil— from the world's experts on the subject This book builds upon and substantially updates Fredlund and Rahardjo's publication, Soil Mechanics for Unsaturated Soils, the current standard in the field of unsaturated soils. It provides readers with more thorough coverage of the state of the art of unsaturated soil behavior and better reflects the manner in which practical unsaturated soil engineering problems are solved. Retaining the fundamental physics of unsaturated soil behavior presented in the earlier book, this new publication places greater emphasis on the importance of the "soil-water characteristic curve" in solving practical engineering problems, as well as the quantification of thermal and moisture boundary conditions based on the use of weather data. Topics covered include: Theory to Practice of Unsaturated Soil Mechanics Nature and Phase Properties of Unsaturated Soil State Variables for Unsaturated Soils Measurement and Estimation of State Variables Soil-Water Characteristic Curves for Unsaturated Soils Ground Surface Moisture Flux Boundary Conditions Theory of Water Flow through Unsaturated Soils Solving Saturated/Unsaturated Water Flow Problems Air Flow through Unsaturated Soils Heat Flow Analysis for Unsaturated Soils Shear Strength of Unsaturated Soils Shear Strength Applications in Plastic and Limit Equilibrium Stress-Deformation Analysis for Unsaturated Soils Solving Stress-Deformation Problems with Unsaturated Soils Compressibility and Pore Pressure Parameters Consolidation and Swelling Processes in Unsaturated Soils Unsaturated Soil Mechanics in Engineering Practice is essential reading for geotechnical engineers, civil engineers, and undergraduate- and graduate-level civil engineering students with a focus on soil mechanics.

Advances in Innovative Geotechnical Engineering - Yong Liu 2021-07-23

With the development of social and science, new requirements are put forward for geotechnical engineering. Advanced geotechnical techniques were proposed to solve the new challenges in geotechnical engineering. The articles presented in this volume aim to the new development of geotechnical engineering such as characterization of geomaterials, slope stability, application of environmental protection materials and some other geotechnical issues that are becoming quite relevant in today's world.

Recent Library Additions - 1992

Dynamic Web Programming and HTML5 - Paul S. Wang 2012-11-21

With organizations and individuals increasingly dependent on the Web, the need for competent, well-trained Web developers and maintainers is growing. Helping readers master Web development, Dynamic Web Programming and HTML5 covers specific Web programming languages, APIs, and coding techniques and provides an in-depth understanding of the underlying concepts, theory, and principles. The author leads readers through page structuring, page layout/styling, user input processing, dynamic user interfaces, database-driven websites, and mobile website development. After an overview of the Web and Internet, the book focuses on the new HTML5 and its associated open Web platform standards. It covers the HTML5 markup language and DOM, new elements for structuring Web documents and forms, CSS3, and important JavaScript APIs associated with HTML5. Moving on to dynamic page generation and server-side programming with PHP, the text discusses page templates, form processing, session control, user login, database access, and server-side HTTP requests. It also explores more advanced topics such as XML and PHP/MySQL. Suitable for a one- or two-semester course at the advanced undergraduate or beginning graduate level, this comprehensive and up-to-date guide helps readers learn modern Web technologies and their practical applications. Numerous examples illustrate how the programming techniques and other elements work together to achieve practical goals. Online Resource Encouraging hands-on practice, the book’s companion website at http://dwp.sofpower.com helps readers gain experience with the technologies and techniques involved in building good sites. Maintained by the author, the site offers: Live examples organized by chapter and cross-referenced in the text Programs from the text bundled in a downloadable code package Searchable index and appendices Ample resource listings and information updates

Slope Stability Engineering - Institution of Civil Engineers (Great Britain) 1991

This volume draws on the experience and extensive research of an international authorship to bring together details on slope stability, causes of landslides, landslide prevention, new techniques for assessing and predicting stability, new methods for stabilising slopes and the special considerations for coastal situations.