

Subsurface Drainage for Slope Stabilization

This book describes methods and practices in the field of subsurface drainage for slope stability improvement. Ground-water pressures significantly affect slope stability. General principles of reducing pressure by drainage are comprehensively addressed. Details of the mechanics of water flow into rock, aggregates, geotextiles, and pipes are covered. Filtration theory and filter design are presented in the geotechnical context, along with the general characteristics of filters and the assessment of their performance.

Field and laboratory investigations, instrumentation and its monitoring, groundwater computer modeling from field investigations, and a collection of methods of slope stability analysis are discussed. The materials and construction procedures used in trench, blanket, and horizontal drains are examined in depth. Also presented are an overview of granular, ferric and calcium carbonate clogging mechanisms and maintenance procedures for controlling them. An appendix of case examples is included.

Geotechnical practitioners, students, and beginners will find this book a comprehensive reference for every aspect of subsurface drainage for slope stabilization.

About the Author:

Kevin Forrester, B.Eng., has practiced civil engineering for approximately 43 years. In his career of 23 years with the Department of Main Roads, New South Wales, Mr. Forrester was first involved with concrete bridges, and then for 22 years with geotechnical problems, including embankments over soft ground and landslide control. He has written and translated numerous papers and manuals.

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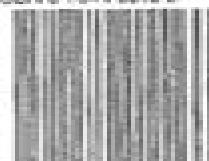
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Subsurface Drainage For Slope Stabilization:

Subsurface Drainage for Slope Stabilization Kevin Forrester, 2001-01-01 **Handbook of Slope Stabilisation** J. A. R. Ortigao, Alberto Sayao, 2013-03-09 This book is aimed at the practising engineer and engineering geologist working in tropical environments where landslides are mainly triggered by rain fall This book is based on a similar work published in 1999 in Portuguese which became the Rio de Janeiro Slope Manual This book is an engineering guide for the design of slopes and stabilisation works in rocks and residual soils It evolves from the cumulative experience gathered by several engineers and geologists who faced severe slope problems The authors experience throughout Central and South America Costa Rica Argentina Bolivia Peru Ecuador and Venezuela and the Far East especially Hong Kong and Malaysia was used as a foundation for writing this book The work also benefits enormously from the time spent in Hong Kong in 1996 and 1997 by the first editor on sabbatical at the City University of Hong Kong and the discussions he had with many colleagues from the Geotechnical Engineering Office GEO of the Hong Kong Government especially Dr A Malone Mr w K Pun Dr A Li Mr K Ho and Mr y c Chan among others Slope Stability and Stabilization Methods Lee W. Abramson, Thomas S. Lee, Sunil Sharma, Glenn M. Boyce, 2001-11-01 A major revision of the comprehensive text reference Written by world leading geotechnical engineers who share almost 100 years of combined experience Slope Stability and Stabilization Second Edition assembles the background information theory analytical methods design and construction approaches and practical examples necessary to carry out a complete slope stability project Retaining the best features of the previous edition this new book has been completely updated to address the latest trends and methodology in the field Features include All new chapters on shallow failures and stability of landfill slopes New material on probabilistic stability analysis cost analysis of stabilization alternatives and state of the art techniques in time domain reflectometry to help engineers plan and model new designs Tested and FHWA approved procedures for the geotechnical stage of highway tunnel and bridge projects Sound guidance for geotechnical stage design and planning for virtually all types of construction projects Slope Stability and Stabilization Second Edition is filled with current and comprehensive information making it one of the best resources available on the subject and an essential reference for today's and tomorrow's professionals in geology geotechnical engineering soil science and landscape architecture **Landslides and Engineered Slopes. From the Past to the Future, Two Volumes + CD-ROM** Zuyu Chen, Jian-Min Zhang, Ken Ho, Fa-Quan Wu, Zhong-Kui Li, 2008-06-11 270 Expert contributions on aspects of landslide hazards encompassing geological modeling and soil and rock mechanics landslide processes causes and effects and damage avoidance and limitation strategies Reference source for academics and professionals in geo mechanical and geo technical engineering and others involved with research des Numerical Simulation of the Performance of Horizontal Drains for Subsurface Slope Stabilization Marie Leony Pathmanathan, 2009 Landslide Science and Practice Claudio Margottini, Paolo Canuti, Kyoji Sassa, 2013-08-18 This book contains peer reviewed papers from the Second World Landslide Forum organised

by the International Consortium on Landslides ICL that took place in September 2011 The entire material from the conference has been split into seven volumes this one is the sixth 1 Landslide Inventory and Susceptibility and Hazard Zoning 2 Early Warning Instrumentation and Monitoring 3 Spatial Analysis and Modelling 4 Global Environmental Change 5 Complex Environment 6 Risk Assessment Management and Mitigation 7 Social and Economic Impact and Policies **Slope Stability Reference Guide for National Forests in the United States**, 1994 Slope Stabilization and Erosion Control: A Bioengineering Approach Roy P.C. Morgan, R.J. Rickson, 2003-09-02 This book is an up to date review of research and practice on the use of vegetation for slope stabilization and control of surface erosion caused by water and wind From a basic understanding of the principles and practices of vegetation growth and establishment it describes how vegetation can be treated as an engineering material and used to solve erosion and slope stability problems **Rock Slope Stability Analysis** Gian Paolo Giani, 1992-01-01 Deals with the methods of assessing the stability of rock slopes and the techniques of improving the stability conditions of natural and artificial slopes which are at risk It also describes survey and measurement methods to model the behaviour of rock masses Cost-effective and Sustainable Road Slope Stabilization and Erosion Control Laura Fay, Michelle Akin, Xianming Shi, National Cooperative Highway Research Program, 2012 In the United States it is estimated that 75 percent of all roads are low volume roads maintained by some 35 000 local agencies Low volume roads often omit surface slope protection and this can lead to slope failure erosion and maintenance safety and ecological issues This report presents information on cost effective and sustainable road slope stabilization techniques with a focus on shallow or near surface slope stabilization and related erosion control methods used on low volume roads To fully address this topic planning and site investigation are discussed as well as erosion control techniques soil bioengineering and biotechnical techniques mechanical stabilization and earthwork techniques Information presented in this report was obtained through an extensive literature review and from survey and interview responses From the survey responses 30 individuals were interviewed based on the information they made available in the survey A total of 25 interviews were conducted over the phone and in two cases written responses were received Preface **Soil Improvement and Ground Modification Methods** Peter G. Nicholson, 2014-08-29 Written by an author with more than 25 years of field and academic experience Soil Improvement and Ground Modification Methods explains ground improvement technologies for converting marginal soil into soil that will support all types of structures Soil improvement is the alteration of any property of a soil to improve its engineering performance Some sort of soil improvement must happen on every construction site This combined with rapid urbanization and the industrial growth presents a huge dilemma to providing a solid structure at a competitive price The perfect guide for new or practicing engineers this reference covers projects involving soil stabilization and soil admixtures including utilization of industrial waste and by products commercially available soil admixtures conventional soil improvement techniques and state of the art testing methods Conventional soil improvement techniques and state of the art testing methods Methods for

mitigating or removing the risk of liquefaction in the event of major vibrations Structural elements for stabilization of new or existing construction industrial waste by products commercially available soil Innovative techniques for drainage filtration dewatering stabilization of waste and contaminant control and removal

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Stability of Slopes and Underground Excavations C. N. V. Satyanarayana Reddy, K. Muthukkumaran, Ravikiran Vaidya, 2021-11-23 This book comprises select proceedings of the Indian Geotechnical Conference 2020 IGC2020 focusing on recent developments in the field of transportation geotechnics scour and erosion offshore geotechnics and environmental geotechnology The contents are useful to academicians researchers practitioners and policymakers to understand and tackle the challenges in an efficient manner and to adopt appropriate sustainable geotechnical engineering solutions

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Idaho Panhandle National Forest (N.F.), Lookout Pass Ski and Recreation Area, 2002

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