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Slope Stability Analysis And Stabilization New Methods And

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***Insight Second
Edition***

"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

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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

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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

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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

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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,

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and in two cases written responses were received"--Preface.

GSP 101 contains 26 papers on slope stability presented at sessions at Geo-Denver 2000, held in Denver, Colorado, August 5-8, 2000.

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Written by a leader on the subject, Introduction to Geotechnical Engineering is first introductory geotechnical engineering textbook to cover both saturated and unsaturated soil mechanics. Destined to become the next

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leading text in the field, this book presents a new approach to teaching the subject, based on fundamentals of unsaturated soils, and extending the description of applications of soil mechanics to a wide variety of topics. This

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groundbreaking work features a number of topics typically left out of undergraduate geotechnical courses.

The field of slope engineering encompasses slope stability analysis and design, movement

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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

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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

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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.

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Selected Papers from the 2009
GeoHunan International
Conference, August 3-6, 2009,
Changsha, Hunan, China
Clay and Shale Slope Instability
Slope Stability, Retaining Walls,
and Foundations

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Slope Stability and Stabilization
Methods

Rock Slope Stability Analysis

The new edition of this successful
book has been thoroughly revised to
take account of recent advances in our
understanding of slope stability and
instability.

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Slope Stability Analysis and
Stabilization New Methods and
Insight CRC Press

Rock Slope Engineering covers the investigation, design, excavation and remediation of man-made rock cuts and natural slopes, primarily for civil engineering applications. It presents

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design information on structural geology, shear strength of rock and ground water, including weathered rock. Slope design methods are discussed for planar, wedge, circular and toppling failures, including seismic design and numerical analysis. Information is also provided on

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blasting, slope stabilization, movement monitoring and civil engineering applications. This fifth edition has been extensively up-dated, with new chapters on weathered rock, including shear strength in relation to weathering grades, and seismic design of rock slopes for pseudo-static

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stability and Newmark displacement. It now includes the use of remote sensing techniques such as LiDAR to monitor slope movement and collect structural geology data. The chapter on numerical analysis has been revised with emphasis on civil applications. The book is written for

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practitioners working in the fields of transportation, energy and industrial development, and undergraduate and graduate level courses in geological engineering.

This book is an up-to-date review of research and practice on the use of vegetation for slope stabilization and

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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.

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Slope Stability 2000

Slope Stability and Erosion Control:

Ecotechnological Solutions

Analysis and Design of Geotechnical

Structures

Slope Stability Analysis and

Stabilization

Slope Stability Analysis by the Limit

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Equilibrium Method
Edition

***Analysis and design of
geotechnical structures
combines, in a single endeavor,
a textbook to assist students in
understanding the behavior of
the main geotechnical works***

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***and a guide for practising
geotechnical engineers,
designers, and consultants.
The subjects are treated in line
with limit state design, which
underpins the Eurocodes and
most North America design***

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***codes. Instructors and
students will value innovative
approaches to numerous issues
refined by the experience of
the author in teaching
generations of enthusiastic
students. Professionals will***

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gain from its comprehensive treatment of the topics covered in each chapter, supplemented by a plethora of informative material used by consultants and designers. For the benefit of both academics and

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professionals, conceptual exercises and practical geotechnical design problems are proposed at the end of most chapters. A final annex includes detailed resolutions of the exercises and problems.

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This book is aimed at the practising engineer and engineering geologist working in tropical environments, where lands lides are mainly triggered by rain fall. This book is based on a similar

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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

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***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,***

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***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***

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***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***

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***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.
This volume draws on the
experience and extensive***

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***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***

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***stabilising slopes and the
special considerations for
coastal situations.***

***This publication includes 82
technical papers presented at
Rocscience International
Conference (RIC) 2021, held***

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***online on April 20 and 21,
2021. Rocscience created this
event to bring geotechnical
academics, researchers and
practitioners together to
exchange ideas as part of
celebrating 25 years of the***

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company's existence. The papers in these proceedings were from keynotes, panel discussions and papers, selected after careful review of over 100 technical submissions delivered at RIC 2021. The

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***technical papers were grouped
into sessions based on their
subject areas. The conference
aimed to stimulate discussions
that could help the industry
work towards overcoming
geotechnical engineering***

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***limitations today. It also
sought to foster creative
thinking that will advance the
current states of the art and
practice. The keynote
addresses, panel discussions
and technical presentations***

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***tried to examine geotechnical
problems and situations from
fresh perspectives. RIC 2021
hopes that the proceedings will
continue to enrich our
thinking and contribute to
achieving a critical mass of***

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***change in our practices and
approaches. We look forward
to significant improvements in
our industry.***

***Slope Stability Engineering
Slope Stabilization and Erosion
Control: A Bioengineering***

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Methods And Insight Second
Approach

***New Methods and Insight,
Second Edition***

***Proceedings of Sessions of Geo-
Denver 2000 : August 5-8,
2000, Denver, Colorado***

A comprehensive guide for

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Edition

**mining and construction
engineers responsible for rock
slope stability. This book focuses
on rock slope stability, with
sections on geological data
collection, geotechnical data
collection and analysis, surface**

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**water and groundwater effects,
kinematic and kinetic stability
analysis, rock slope stabilization
techniques, and rock slope
instrumentation and monitoring.
Because of the discontinuous
nature of rock, the design of**

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stable rock slopes is as much an art as it is applied engineering.

Experience can only be achieved from the proper utilization of these theories of soil and rock mechanics, structural geology, and hydrology. Rock Slope

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**Stability is invaluable for
engineering geologists,
geotechnical engineers, mining
engineers, civil engineers, and
mine managers-- as well as anyone
else dedicated to engineering
slopes that are stable and safe and**

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that enable a financial return.

**Slope Stability Analysis by the
Limit Equilibrium Method:
Fundamentals and Methods
presents basic principles for the
safe design of constructed or
natural earth slopes. The limit**

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equilibrium method is the most common approach for analyzing slope stability in both two and three dimensions. This method identifies potential failure mechanisms and derives factors of safety for a particular

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geotechnical situation. It is an appropriate choice for assessing the stability of retaining walls shallow and deep foundations earth and rock dams surface mining sites and potential landslides. The fundamentals of

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**slope stability encompass slope
movements and methods for
stability analysis mechanics of
slope failure and factors of safety
laboratory and field methods to
determine the shear strength of
soils estimation of phreatic**

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**surfaces and remedial measures
for correcting slides. Methods of
stability analysis cover simple
formulas for determining the
factor of safety for plane failures
stability charts methods of slices
for two-dimensional analysis**

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**three-dimensional analysis
techniques and reliability of slope
design. An appendix provides a
preview of a companion product
LEAME Software and User's
Manual: Analyzing Slope Stability
by the Limit Equilibrium Method**

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**a computer program for
performing the slope stability
analysis presented in this work
(available from American Society
of Civil Engineers). The clear
presentation of the principles of
slope stability analysis ensures**

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**that this work will be a frequently
consulted reference for practicing
engineers. The wealth of worked
examples and problem sets make
this a suitable textbook for senior
and graduate students in soil
mechanics and geotechnical**

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engineering.

**Introductory technical guidance
for civil and geotechnical
engineers interested in slope
stability analysis. Here is what is
discussed: 1. GENERAL 2.
SLOPE STABILITY**

Page 55/167

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**PROBLEMS 3. SLOPES IN
SOILS PRESENTING SPECIAL
PROBLEMS 4. SLOPE
STABILITY CHARTS 5.
DETAILED ANALYSES OF
SLOPE STABILITY 6.
STABILIZATION OF SLOPES.**

Page 56/167

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**This new edition of this
successful book has been
thoroughly revised to take account
of recent advances in our
understanding of slope stability
and instability. The book begins
with a consideration of slope**

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stability processes, including the evolution of natural slopes.

The behaviour of soil and rocks, and the flow of water through them, (which is of fundamental importance to their shear strength), are explained in

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**considerable detail. The principles
and techniques of stability
analysis are covered in two
separate chapters. From this basic
theory the author develops
practical design criteria for new
slopes, discusses remedial**

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**measures for slope stabilization,
and provides guidance on
investigation of landslides.**

**Computer programs to facilitate
analysis and design are discussed
where appropriate, and the book
concludes with several carefully**

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**selected case histories, and design
recommendations for man-made
slopes.**

**Cost-effective and Sustainable
Road Slope Stabilization and
Erosion Control
Computations and Applications**

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**Probabilistic Approaches for
Geotechnical Site**

**Characterization and Slope
Stability Analysis**

Handbook of Slope Stabilisation

Rock Slope Stability

This collection of papers covers a wide

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range of relevant issues and aspects of slope stability engineering from both practical and scientific points of view from the Proceedings of the International Symposium on Slope Stability Engineering : Is--Shikoku'99 : Matsuyama, Shikoku, Japan, 8-11 November, 1999.

Reliability-based design is the only

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engineering methodology currently available which can ensure self-consistency in both physical and probabilistic terms. It is also uniquely compatible with the theoretical basis underlying other disciplines such as structural design. It is especially relevant as geotechnical design becomes subject to

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increasing codification and to code harmonization across national boundaries and material types. Already some codes of practice describe the principles and requirements for safety, serviceability, and durability of structures in reliability terms. This book presents practical computational methods in concrete steps

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that can be followed by practitioners and students. It also provides geotechnical examples illustrating reliability analysis and design. It aims to encourage geotechnical engineers to apply reliability-based design in a realistic context that recognises the complex variabilities in geomaterials and model uncertainties

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arising from a profession steeped in empiricism. By focusing on learning through computations and examples, this book serves as a valuable reference for engineers and a resource for students. Slope stability is always a very important topic in many developed and highly congested cities, particularly for many

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cities in China where slope failures have killed many people with significant loss of properties. The author has also participated in different types of slope stability research and consultancy works in different countries, and has published two books entitled Soil Slope stability analysis and stabilization new methods

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and insights and Frontier in civil engineering, vol.1, Stability analysis of geotechnical structures which are well favoured by many students, engineers and researchers. The author also frequently receives email about the details of the more innovative slope stability analysis methods, stabilization and monitoring

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system, as well as the procedures in the numerical implementation of some of the stability analysis methods. In views of the various improvements in the theory of slope stability analysis over the years, the author would like to write a new book on slope stability analysis and slope reliability analysis, and the new materials

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will be useful to both students, engineers as well as researchers. In this book, different methods of slope stability analysis will be discussed in a broad sense. Following that, the limit equilibrium and finite element methods will be discussed in more details, as these two methods are the methods commonly

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used for practical works. Detailed procedures for limit equilibrium analysis will be provided to aid the students in learning, while the program SLOPE2000 will be introduced for the solution of more complicated problems. Some interesting engineering cases will be illustrated in this book. The author will also try to introduce

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the use of distinct element slope stability method, which is a technique still far from practical applications, but it does offer some insights which are not possible with the other methods. Following that, the author will introduce the importance of reliability slope stability analysis, which is an important issue for cities with

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complicated ground conditions and high water table. Due to the intensive computation required for reliability analysis, the author has proposed many improvements to various reliability assessment methods in order to maintain a balance between accuracy and time of computation. The central core of SLOPE

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2000 and SLOPE 3D for two-dimensional and three-dimensional slope stability analysis as introduced in this book are developed mainly by the author, while there are many research personnel who have helped in various works associated with the research works. The authors would like to thank Yip C.J., Wei W.B., Li

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N., Li L. Li D.Z. and Liu L.L. for the helps in preparing parts of the works and the preparation of some of the figures in this book.

Landslides and debris flows belong to the most dangerous natural hazards in many parts of the world. Despite intensive research, these events continue to result i

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human suffering, property losses, and environmental degradation every year. Better understanding of the mechanisms and processes of landslides and debris flows will help make reliable predictions, develop mitigation strategies and reduce vulnerability of infrastructure. This book presents contributions to the workshop on

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Recent Developments in the Analysis, Monitoring and Forecast of Landslides and Debris Flow, in Vienna, Austria, September 9, 2013. The contributions cover a broad spectrum of topics from material behavior, physical modelling over numerical simulation to applications and case studies. The workshop is a joint

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event of three research projects funded by the European Commission within the 7th Framework Program: MUMOLADE (Multiscale modelling of landslides and debris flows, www.mumolade.com), REVENUES (Numerical Analysis of Slopes with Vegetations, <http://www.revenues-eu.com>) and

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HYDRODRIL (Integrated Risk Assessment
of Hydrologically-Driven Landslides,
www.boku.ac.at/igt/).

Developments and Applications :
Proceedings of the International
Conference on Slope Stability

The Evolution of Geotech - 25 Years of
Innovation

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Slope Stability Analysis Under Three-
dimensional Stress Condition and
Stabilization of Cable Bolting
Unsaturated and Saturated Soils
Proceedings of the International
Symposium, IS-Shikoku '99

*Master's Thesis from the year
2013 in the subject Engineering -*

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*Civil Engineering, grade: 3.74,
Arba Minch University, language:
English, abstract: Probabilistic
methods of slope stability analysis
accompanying conventional
analyses provide the means for
the reliability and probability of*

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*failure of the slope in a
quantifying way. They provide us
an important knowledge for
stability condition of the slope.
The essential requirement of the
soil parameters is determined in
the laboratory for the analysis of*

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the slope meeting the insitu conditions. For the location of the phreatic surface three different scenarios were considered for the profile of the water surface to carry out the analysis. Effective strength parameters were

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considered to assess the long-term stability condition. The spatial variability of the random variables was incorporated into this model and by considering the contributions of the end resistance of 3-D probability of

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failure. The 3-D aspects of failure were investigated using FLAC3D software incorporating all the parameters of the soil to visualize the failure probability for the scenarios. Both normal and lognormal distribution of FOS

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*were considered in order to
compare and contrast the
reliability and probabilities of
failure in a measurable ways using
NORMDIST and NORMSDIST
program which is integrated in
MS-EXCEL and from the*

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*probability density function table.
The analysis gave that Probability
of failure for normal distribution is
higher than that of probability of
failure for lognormal distribution.
It was also attempted to
investigate the best combination*

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*of the slope parameters to have
the desirable target probability of
failure for the scenarios and
recommendation were made to
provide geosynthetic
reinforcement for stabilization
and construct appropriate*

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*retaining wall with proper
drainage as well as provision of
sheet pile to achieve the desirable
postulated probabilities of failure.
"Soil Strength and Slope Stability
is the essential text for the critical
assessment of natural and man-*

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made slopes. Extensive case studies throughout help illustrate the principles and techniques described, including a new examination of Hurricane Katrina failures, plus examples of soil and slope engineering from around the

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world. Extraneous theory has been excluded to place the focus squarely on the practical application of slope design and analysis techniques, including information about standards, regulations, formulas, and the use

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*of software in analysis."--pub.
desc.*

*Deals with the methods of
assessing the stability of rock
slopes and the techniques of
improving the stability conditions
of natural and artificial slopes*

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which are at risk. It also describes survey and measurement methods to model the behaviour of rock masses.

Earthwork projects are critical components in civil construction and often require detailed

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management techniques and unique solution methods to address failures. Being earth bound, earthwork is influenced by geomaterial properties at the onset of a project. Hence, an understanding of the in-situ soil

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properties is essential. Slope stability is a common problem facing earthwork construction, such as excavations and shored structures. Analytical methods for slope stability remain critical for researchers due to the mechanical

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complexity of the system. Striving for better earthwork project managements, the geotechnical engineering community continues to find improved testing techniques for determining sensitive properties of soil and

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*rock, including stress-wave based,
non-destructive testing methods.*

*To minimize failure during
earthwork construction, past case
studies and data may reveal useful
lessons and information to
improve project management and*

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minimize economic losses. This volume is part of the proceedings of the 1st GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2017.

Subsurface Drainage for Slope

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Fundamentals and Methods

*An Introduction to Slope Stability
Analysis*

Geotechnical Engineering

The Stability of Slopes

This book is an engineering

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***guide for design of slopes
and stabilisation works in
rocks and residual soils. It
is tailored to the needs of
practising geotechnical
engineers and engineering
geologists. Engineering and
engineering geology students***

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*will find it quite useful
and a practical course
guide. It can be used as
textbook in courses on
landslides and slope
stabilisation. The purpose
of this book is to present a
concise documentation on how*

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*to design slopes and how to
select a slope stabilisation
method. The authors are
scholars and professional
engineers with many years of
international experience in
slope stabilization works in
South and Central America*

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Methods And Insight Second
and the Far East.

*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,*

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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***

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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

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*and stability of landfill
slopes New material on
probabilistic stability
analysis, cost analysis of
stabilization alternatives,
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*provides helpful practical
advice and design resources
for the practicing engineer.
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of current methods for the
analysis and design of
slopes, and details the
limitations of both limit*

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*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*

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*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*

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***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***

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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

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analysis and the bearing capacity problem, as well as the stability of the three-dimensional slope under patch load conditions.

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*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*

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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

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*discovered during the
development of associated
computer programs This text
assesses the fundamental
assumptions and limitations
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methods and computer
modelling, and benefits*

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stability***

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empirical and analytical***

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*aspects of clay and shale
slope instability. Among the
topics discussed in detail
are: limit equilibrium
stability analysis, shear
strength of clay and clayey
colluvium, use of triaxial
test data to evaluate*

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movements, numerical
modeling of pore pressure
distribution in
heterogeneous soils,
rational analysis of
rainfall and landslide
movement patterns, the***

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alteration on slope
stability, mudrock
durability and stability
considerations, and regional
clay and shale slope
stability problems in Italy.
Probabilistic Methods of***

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Slope Stability Analysis.

***The Case of Wozeka-Gidole
Cut Slope***

***Soil Testing, Soil Stability
and Ground Improvement***

***Slope Stability and
Reliability Analysis***

Slope stability analysis

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*under three-dimensional
stress condition and
stabilization design of
cable bolting
Rock Mechanics*

**This book aims to assist in
choosing ecotechnological
solutions for slopes that are**

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**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**

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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.

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Challenges and Recent
Advances in Pavement**

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Transportation Geotechnics,
which took place in Changsha,
Hunan, China, from August 3
to 6, 2009. This proceedings
examines topics such as: Ø soil
stabilization Ø dynamic**

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**behavior of soils and
foundations Ø earth retaining
walls Ø slope stability This
publication will be valuable to
geotechnical engineering
professors and students, as
well as geotechnical engineers**

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and professionals

**This is the first book to revisit
geotechnical site
characterization from a
probabilistic point of view and
provide rational tools to
probabilistically characterize**

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**geotechnical properties and
underground stratigraphy
using limited information
obtained from a specific site.
This book not only provides
new probabilistic approaches
for geotechnical site**

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**characterization and slope
stability analysis, but also
tackles the difficulties in
practical implementation of
these approaches. In addition,
this book also develops
efficient Monte Carlo**

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**simulation approaches for
slope stability analysis and
implements these approaches
in a commonly available
spreadsheet environment.
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software package are readily**

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available to geotechnical practitioners and alleviate them from reliability computational algorithms. The readers will find useful information for a non-specialist to determine project-

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**specific statistics of
geotechnical properties and to
perform probabilistic analysis
of slope stability.**

**This volume includes the
papers presented during the
1st Euro-Mediterranean**

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**Conference for Environmental
Integration (EMCEI) which was
held in Sousse, Tunisia in
November 2017. This
conference was jointly
organized by the editorial
office of the Euro-**

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**Mediterranean Journal for
Environmental Integration in
Sfax, Tunisia and Springer
(MENA Publishing Program) in
Germany. It aimed to give a
more concrete expression to
the Euro-Mediterranean**

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**integration process by
supplementing existing North-
South programs and
agreements with a new
multilateral scientific forum
that emphasizes in particular
the vulnerability and proactive**

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**remediation of the Euro-
Mediterranean region from an
environmental point of view.
This volume gives a general
and brief overview on current
research focusing on emerging
environmental issues and**

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**challenges and its applications
to a variety of problems in the
Euro-Mediterranean zone and
surrounding regions. It
contains over five hundred and
eighty carefully refereed short
contributions to the**

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conference. Topics covered include (1) innovative approaches and methods for environmental sustainability, (2) environmental risk assessment, bioremediation, ecotoxicology, and

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**environmental safety, (3) water
resources assessment,
planning, protection, and
management, (4)
environmental engineering
and management, (5) natural
resources: characterization,**

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**assessment, management, and
valorization, (6) intelligent
techniques in renewable
energy (biomass, wind, waste,
solar), (7) sustainable
management of marine
environment and coastal areas,**

**(8) remote sensing and GIS for
geo-environmental
investigations, (9)
environmental impacts of
geo/natural hazards
(earthquakes, landslides,
volcanic, and marine hazards),**

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and (10) the environmental health science (natural and social impacts on Human health). Presenting a wide range of topics and new results, this edited volume will appeal to anyone working in

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**the subject area, including
researchers and students
interested to learn more about
new advances in environmental
research initiatives in view of
the ever growing
environmental degradation in**

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**the Euro-Mediterranean
region, which has turned
environmental and resource
protection into an increasingly
important issue hampering
sustainable development and
social welfare.**

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**Recent Advances in
Environmental Science from
the Euro-Mediterranean and
Surrounding Regions
Recent Advances in Modeling
Landslides and Debris Flows
Rock Slope Engineering**

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**Civil Applications, Fifth Edition
Proceedings of the 1st
GeoMEast International
Congress and Exhibition, Egypt
2017 on Sustainable Civil
Infrastructures**

Much of the research on fracture

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*of rocks or rock-like materials
conducted over the past two
decades may be considered as
"academic studies" of the general
phenomenon of fracture. Yet, the
understanding of this phenomenon
is fundamental if a material is*

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used in any engineering design, whether the aim is to prevent failure of the structure or to promote it. Fracture theories existing are generally empirical and derived from experimental results of laboratory test with

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simple boundary conditions.

Because of the basic weakness of rock intension and because in general the environmental stresses in rock mechanics are compressive most of these theories consider fracture under

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compressive stress conditions. The Coulomb-Navier-, the Mohr-, the Griffith and the McClintock and Walsh criteria are typical examples and will be considered in the following. In addition the tendency during the past was in making

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accurate experiments under conditions of homogeneous stresses. To obtain information about the fracture behaviour with unequal principal stresses systems have to be used which involve inhomogeneous stresses. This

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case is of particular interest, since in practical rock mechanics we may expect conditions of highly inhomogeneous stresses.

However, a consideration of such situations involve additional assumptions like the applicability

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of the theory of elasticity for calculating the stress field, which may be open to question. A distinction has to be made between fracture initiation and fracture propagation, since a detailed observation of the total

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fracture process in rock was possible by means of "stiff" and "servo-controlled" loading systems.

A number of methods currently exist for the analysis and design of slopes. This book provides a

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critical review of these and offers several more appropriate approaches for overcoming numerical convergence and the location of critical failure surfaces in two-dimensional and three-dimensional cases. New concepts

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in three-dimensional stability analysis, finite element analysis and the extension of slope stability problems to lateral earth pressure problems are also addressed. It gives helpful practical advice and design resources in the form of

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*recommendations for good
analysis and design practice,
design charts and tables for the
engineer. Limitations are detailed
of both limit equilibrium and the
finite element method in the
assessment of the stability of a*

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slope, and guidance is provided for assessing the fundamental assumptions and limitations of stability analysis methods and computer modelling. The book provides ample examples to illustrate how this range of

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problems should be dealt with. The final chapter touches on design and its implementation on site. The emphasis is on the transfer of the design to its physical implementation on site in a holistic way, taking full account of the

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*latest developments in
construction technology.*

*Engineering and construction
problems tend to be pigeonholed
into different classes of problem
such as slope stability, bearing
capacity and earth pressure*

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behind retaining structures. This is quite unnecessary. This book offers a unified approach, which is conceptually, practically and philosophically more satisfying. Soil Strength and Slope Stability Proceedings of Euro-Mediterranean

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*Conference for Environmental
Integration (EMCEI-1), Tunisia
2017*

*A Bioengineering Approach
New Methods and Insight
Slope Engineering*