THE RTA GUIDE TO SLOPE RISK ANALYSIS VERSION 3.1

I.E. Stewart, F.J. Baynes, and I.K. Lee,

Manager, Geotechnical Contracts Section, RTA, NSW
 Consultant Engineering Geologist, Perth, Western Australia
 Emeritus Professor, Sydney, NSW

ABSTRACT

The RTA Guide to Stope Risk Analysis presents a procedure for analysing geotechnical risks associated with alopes adjacent to main roads in NSW. The procedure analyses the risk associated with actual or potential failure mechanisms which have been identified for a slope, using a series of defined ratings, which are combined through a risk matrix to generate an Assessed Risk Level (ARL) for the slope. The ratings are correlated to conditional probabilities for the likelihood and consequences of failure. Risk to life and economic risk are both analysed. Some of the methods used to allocated the ratings are presented. The inherent limits to the precision of risk analysis procedures are also discussed.

1 INTRODUCTION

The paper describes the RTA Goode to Stope Risk Analysis Version 3.1. The procedure has been developed for the purpose of analysing geotechnical risks associated with slopes, including retaining structures, adjacent to main roads in NSW. It is intended to be used in setting priorities for further work, which may take the form of investigation, monitoring, remediation or other measures as considered appropriate. The mendatory part of the procedure, together with an example of its use, is presented in Appendix A.

2 BACKGROUND

The development of a systematic slope risk analysis procedure by the RTA first started in the early 1990's. The early procedures (Grade to a Slope Risk Rating System, Versions 1 and 2), completed in 1994/5 were based on weighted scoring of slope ethibutes and a subjective assessment of consequences, combined using a risk metrix based on harard and consequences, of the type subsequently used in AS-4360 (1999). Data collection was intended to be undertaken by maintenance personnel, followed by desk analysis by a geotechnical practitioner. Proposed actions based on the resulting risk levels were directed towards setting priorities for inspection by a geotechnical practitioner, but were poorly defined. The procedure was used in a very limited way prior to late 1997. In late 1997 and early 1998 Version 2 was used statewide to assess about 2500 slopes. Review of the results of this programme indicated that the reproducibility of the analyses was poor and that the risk levels derived were not sufficiently accurate to set priorities for slope remediation and maintenance programmes.

Development of a new procedure commenced in mid 1999. Prior to its adoption, it was reviewed by independent expects (Dr Fred Baynes (FIB) and Professor Ian Lee (IKL)). The first edition of the new procedure (Versions 3.0/3.01 of the RTA Oracle to Slope Risk Assessment) was used in late 2000 for analysis of about 600 slopes (later increased to over 700). This work was undestaken by a panel of consultants (seven external to the RTA, one internal) and involved about 23 practitioners. Initially the reproducibility of results (for sites analysed by the independent expents) was unsatisfactory. This necessitated substantial revision to definitions and allocation methods, followed by re-assessment of the results. The effects of the changes are discussed by Baynes et al (2002). Incorporation of these changes into the base document (and some further changes resulting from additional development work), followed by substantial rearrangement of the document, gave rise to V emon 3.1 of the RTA Oracle to Slope Risk Analysis.

3 PRINCIPLES OF OPERATION

The main function of the procedure is to facilitate the setting of priorities for further work. There are a number of essential requirements for a procedure of this type:

 It must be applicable to a large number of sites, covering a great range of conditions and be capable of being used by many practitioners, while still producing consistent results. Earlier versions were mainly oriented towards assessing cuttings. Very few embankments or natural slopes and no retaining structures were assessed. The new method had to be suitable for all of these types of slope.

Rta Guide To Slope Risk Analysis

Erol Tutumluer, Soheil Nazarian, Imad Al-Qadi, Issam I.A. Qamhia

Rta Guide To Slope Risk Analysis:

Guide to slope risk analysis, version 3.1,2001 Landslide Risk Management Oldrich Hungr, Robin Fell, Rejean Couture, Erik Eberhardt, 2005-06-30 Landslide Risk Management comprises the proceedings of the International Conference on Landslide Risk Management held in Vancouver Canada from May 31 to June 3 2005 The first part of the book contains state of the art and invited lectures prepared by teams of authors selected for their experience in specific topics assigned to Advances in Geomechanics and Geotechnical Engineering Hadi Khabbaz, Cholachat Rujikiatkamjorn, Mehdi Tamadon, Ali Parsa-Pajouh, 2025-10-10 This book presents the selected papers from the 28th Annual Symposium organised by the Sydney Chapter of the Australian Geomechanics Society AGS The symposium brought together key stakeholders from the Australian geological and geotechnical community The book showcases state of the art practices design approaches recent research findings and case histories covering a wide range of topics including emerging technologies in ground improvement advanced numerical models for soil consolidation applications of machine learning rock modelling slope stability risk management and innovative and sustainable considerations in design and construction It also highlights the application of recent in situ testing equipment and methodologies Furthermore the book discusses recent innovations trends concerns practical challenges encountered and solutions adopted within the field It serves as a valuable reference for academics and industry professionals engaged in geotechnical engineering This publication represents the collaborative efforts of numerous authors and qualified reviewers Landslides and Engineered Slopes. Experience, Theory and Practice Stefano Aversa, Leonardo Cascini, Luciano Picarelli, Claudio Scavia, 2018-04-17 Landslides and Engineered Slopes Experience Theory and Practice contains the invited lectures and all papers presented at the 12th International Symposium on Landslides Naples Italy 12 19 June 2016 The book aims to emphasize the relationship between landslides and other natural hazards Hence three of the main sessions focus on Volcanic induced landslides Earthquake induced landslides and Weather induced landslides respectively while the fourth main session deals with Human induced landslides Some papers presented in a special session devoted to Subareal and submarine landslide processes and hazard and in a Young Session complete the books Landslides and Engineered Slopes Experience Theory and Practice underlines the importance of the classic approach of modern science which moves from experience to theory as the basic instrument to study landslides Experience is the key to understand the natural phenomena focusing on all the factors that play a major role Theory is the instrument to manage the data provided by experience following a mathematical approach this allows not only to clarify the nature and the deep causes of phenomena but mostly to predict future and if required manage similar events Practical benefits from the results of theory to protect people and man made works Landslides and Engineered Slopes Experience Theory and Practice is useful to scientists and practitioners working in the areas of rock and soil mechanics geotechnical **Proceedings of the 5th International Conference on Transportation** engineering engineering geology and geology

Geotechnics (ICTG) 2024, Volume 2 Cholachat Rujikiatkamjorn, Jianfeng Xue, Buddhima Indraratna, 2024-10-23 This book presents select proceedings of the 5th International Conference on Transportation Geotechnics ICTG 2024 It includes papers on ground improvement methodologies dynamics of transportation infrastructure and geotechnical intricacies of mega projects It covers topics such as underground transportation systems and heights of airfields and pavements This book discusses diverse thematic landscapes offering profound explorations into sensor technologies data analytics and machine learning applications. The publication highlights advanced practices latest developments and efforts to foster collaboration innovation and sustainable solutions for transportation infrastructure worldwide The book can be a valuable reference for researchers and professionals interested in transportation geotechnics IAEG/AEG Annual Meeting Proceedings, San Francisco, California, 2018 - Volume 2 Abdul Shakoor, Kerry Cato, 2018-08-25 This book is one out six IAEG XIII Congress and AEG 61st Annual Meeting proceeding volumes and deals with topics related to the geotechnical and environmental site characterization The theme of the IAEG AEG Meeting held in San Francisco from September 17 21 2018 is Engineering Geology for a Sustainable World The meeting proceedings analyze the dynamic role of engineering geology in our changing world The meeting topics and subject areas of the six volumes are Slope Stability Case Histories Landslide Mapping Emerging Technologies Geotechnical and Environmental Site Characterization Mining Aggregates Karst Dams Tunnels Groundwater Resources Climate Change Geologic Hazards Earthquakes Land Subsidence Coastal Hazards and Emergency Response and Advances in Engineering Geology Education Soil and Rock Properties Modeling Earthworks Burt G. Look, 2022-09-22 Case studies are used to show how theory is applied in practice In the design and construction process various models are used geotechnical laboratory analytical delivery and economic models as the project is developed from planning to construction This book explores the use and limitations of these earthwork models to be understood and appropriately applied This book evolved from an earthworks course to practicing engineers over a 10 year period Theory alone is not enough Experience alone without relating back to theory can sometimes be misleading if transferred without understanding the fundamentals The book benefited from the experiences of those many practicing engineers and the author s experience in multi disciplinary consulting companies as well as specialist geotechnical companies and government departments The basics of soil rock and compaction mechanics as applied to field conditions are covered Material typically not covered in other textbooks include the applications and limitations of associated standard laboratory and field testing Specific chapters are dedicated to excavation subgrade and expansive clay assessment and treatment Useful design practices as well as the development and application of specifications is covered A specification test or design in one climatic condition or geology may not apply in another Advances in Transportation Geotechnics IV Erol Tutumluer, Soheil Nazarian, Imad Al-Qadi, Issam I.A. Qamhia, 2021-09-16 This volume presents selected papers presented during the 4th International Conference on Transportation Geotechnics The papers address the geotechnical challenges in design

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Rta Guide To Slope Risk Analysis Book Review: Unveiling the Magic of Language

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lab report copper iron stoichiometry 1522 words cram - Jul 02 2022

web the purpose of the copper iron stoichiometry lab was to determine which of the two possible iron sulfate compounds formed when reacting aqueous copper ii sulfate with solid iron metal the techniques used in this lab were weighing by difference quantitative transfer and vacuum filtration

chem 1131 lab report 4 docx stoichiometry of iron copper ii - Apr 30 2022

web objective to apply stoichiometric principles to calculate the appropriate chemical equation for the reaction between iron metal and a solution of copper i sulfate introduction in the form of finely split powder copper metal is produced as a byproduct of the process as iron ions the ion meta dissolves

stoichiometry the reaction of iron with copper ii sulfate - Mar 10 2023

web purpose to enhance the understanding of stoichiometry a reaction between iron and copper ii sulfate solution will be conducted this will help you to differentiate limiting and excess reactant in a chemical reaction finally the theoretical and percent yield of this reaction will be calculated

single replacement stoichiometry lab central bucks school district - Sep 04 2022

web purpose in this experiment you will observe a single replacement reaction you will also use stoichiometry to predict what the theoretical yield of product is and calculate a percent yield reaction iron copper ii sulfate copper iron ii sulfate pre lab questions write the balanced equation

lab report stoichiometry copper sulfate and iron 2023 - Dec 27 2021

web lab report stoichiometry copper sulfate and iron the oxidation of trimethylamine by copper ii chloride nov 10 2022 this research was on the irreversible oxidation of trimethylamine by copper ii chloride which takes place at temperatures of about 75 and higher the coordination of trimethylamine by copper ii

lab report on iron stoichiometry 1098 words bartleby - Jan 28 2022

web october 3 2017 abstract the techniques used in this lab are quantitative transfer and vacuum filtration with the reaction of 8 001 grams of copper ii sulfate cuso4 and 2 0153 grams of iron powder fe the goal of this experiment was to determine the product of copper ii sulfate with iron

stoichiometry lab copper sulfate iron pdf stoichiometry - Jun 01 2022

web procedure 1 find the mass of a clean dry 100 ml beaker and record 2 measure out 8 00 grams of copper ii sulfate onto a piece of filter paper taking the filter paper s mass into account add these to the beaker 3 measure 50 0 ml of water in the cylinder and add it to the beaker 4

stoichiometry lab the reaction of iron with copper ii sulfate - Oct 05 2022

web stoichiometry lab the reaction of iron with copper ii sulfate the study of stoichiometry deals with the calculation of quantities in a chemical reaction how much product will be produced how much reactant do you need to make that much product

stoichiometry lab iron and copper ii sulfate tpt - Feb 26 2022

web description great lab for use during stoichiometry unit in chemistry reinforces ideas of mole ratios and stoichiometry calculations by measuring the mass of iron that reacts and the mass of copper metal produced students can calculate the

ratio of moles of reactant to moles of product this experimental mole ratio from lab can be compared stoichiometry the reaction of iron with copper ii sulfate - Jun 13 2023

web in this experiment we will use stoichiometric principles to deduce the appropriate equation for the reaction between metallic iron and a solution of copper ii sulfate this reaction produces metallic copper which is seen precipitating as a finely divided red powder

lab stoichiometry iron with copper ii sulfate pdf scribd - Nov 06 2022

web in this lab we will use experimental evidence and the principles of stoichiometry to determine which ion is formed in a single replacement reaction between iron and copper ii sulfate pre lab assignment in preparation for the lab activity we will investigate another single replacement reaction between copper and silver nitrate

lab report 4 iron copper ii sulfate studocu - Aug 15 2023

web through this experiment we sought to use stoichiometric principles which derive from stoichiometry the study of substance quantities in ratio or proportion in a chemical reaction in this lab experiment the principles help distinguish the equation between iron powder and aqueous copper ii sulfate in the iron copper ii sulfate redox reaction

lab 4 lab 4 stoichiometry of iron copper ii sulfate redox - Jan 08 2023

web this experiment is focused on a reaction between iron metal and a solution of copper ii sulfate we are able to figure out the chemical equation between the two by using stoichiometric principles the iron displaces the copper ii sulfate ions the copper ii is then reduced and gains electrons

<u>lab report 4 stoichiometry of iron copper ii sulfate</u> - Dec 07 2022

web stoichiometry can be defined as the relationship between the relative quantities of substances taking part in a reaction or forming a compound stoichiometric principles can be used to deduce the appropriate chemical equation for a reaction in our experiment we used solid iron in the form of powder was added to a solution ofcopper ii sulfate

lab report 4 stoichiometry of iron copper ii sulfate - Feb 09 2023

web stoichiometric principles can be used to determine the chemical equation between iron powder and aqueous copper ii sulfate in the iron copper ii sulfate redox reaction the iron ions dissolve in the copper ii sulfate solution to produce copper ii ions

stoichiometry reaction of iron with copper ii sulfate - Apr 11 2023

web lab 4 stoichiometry the reaction of iron with copper ii sulfate revised 8 19 2009 1 introduction in this experiment we will use stoichiometric principles to deduce the appropriate equation for the reaction between metallic iron and a solution of copper ii sulfate this reaction produces

lab report copper iron stoichiometry 1522 words cram lab report - Mar 30 2022

web under the finalize of the experiment it was found that iron was the limiting reactant and iron ii sulfate was a product of the reaction between 7 0002g away cooper ii sulfate and 2 0101g iron metal which produced 2 3037g of copper product with a percent yield of 100 72 introduction

lab report stoichiometry the reaction of iron with copper ii sulfate - Aug 03 2022

web stoichiometry lab report the reaction of iron with copper ii sulfate period 5 in this experiment i observed the reaction of iron with copper ii sulfate i obtained the results to this experiment through adding heated cuso4 solution to the iron powder stirring the solution adding water then removing water adding acetone heating the acetone on low

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web stoichiometry the reaction of iron with copper ii sulfate purpose to enhance the understanding of stoichiometry a reaction between iron and copper ii sulfate solution will be conducted this will help you to differentiate limiting and excess reactant in a chemical reaction

stoichiometry lab iron and copper sulfate studylib net - May 12 2023

web stoichiometry lab iron and copper sulfate sample data data and observations mass of copper ii sulfate pentahydrate 3 27 g of g mass of filter paper mass of filter paper and dry copper mass of dry copper 1 28 g