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understanding, modelling and assessment of the engineering performance of slopes.

"Geotechnical Slope Analysis" by Robin N. Chowdhury ...

This paper is concerned with the major achievements in geotechnical slope analysis and the challenges for further

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advancement in the 21st century. New developments of great value have occurred over the past few decades for carrying out both site-specific and regional studies.

Geotechnical analysis of slopes and landslides ...

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AND LANDSLIDES. ACHIEVEMENTS AND CHALLENGES. Robin Chowdhury and Phil Flentje . University of Wollongong, Australia ... REGIONAL SLOPE ANALYSIS WITH RAINFALL AS TRIGGERING FACTOR (LANDSLIDING CAUSED BY INCREASING PORE WATER PRESSURES) Case study - August 1998 rainstorm event - Wollongong region ...

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**GEOTECHNICAL ANALYSIS OF
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Environment, Auckland, New Zealand,
2010. 1

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Understanding and modelling important phenomena 639.

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Overview Research concerning slope stability has been going on at the University of Wollongong for about three decades. Starting from conventional

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geotechnical analysis of slopes, soil testing and site investigation.

Landslide Research - University of Wollongong - UOW

Scope. Slope stability within urban areas, including along roads and railway lines; Development of Geographic Information System (GIS) based

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landslide inventories; Study of 3 significant landslide sites within the Illawarra region, NSW, Australia; The development of modern techniques to assess landslide susceptibility and hazard and the preparation of maps showing zones of landslide ...

Scope - University of Wollongong -

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For an infinite slope analysis, the FS is independent of the slope depth, h , and depends only on the angle of internal friction, ϕ , and the angle of the slope, β . The slope is said to have reached limit equilibrium when $FS=1.0$. Also, at a $FS = 1.0$, the maximum slope angle will be limited to the angle of internal friction,

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Geotechnical Engineering: Slope Stability

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soils, automated monitoring of track defects, assessment of wheel-rail-ballast degradation, effect of slope movements on rail tracks, landslides hazards and risk management, improvement of soft coastal clay foundations, remediation of acid sulphate soils to prevent corrosion of track components, decision ...

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**Geomechanics and Railway
Engineering (GRE) - UOW**

Geological hazards Research concerning slope stability has been going on at the University of Wollongong for about three decades and continues as a core component of GeoQuEST research.

Starting from conventional geotechnical analysis of slopes, soil testing and site

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investigation.

**Geological hazards - University of
Wollongong - UOW**

This paper is concerned with the major achievements in geotechnical slope analysis and the challenges for further advancement in the 21st century. New developments of great value have

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occurred over the past few decades for carrying out both site-specific and regional studies.

"Geotechnical analysis of slopes and landslides ...

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UOW - Faculty of Engineering and Information Sciences ...

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a residual value) is rarely used as a variable in geotechnical slope analysis. Recently, interesting results have been revealed from a consideration of 'residual factor' in slope stability as a random variable (Chowdhury and Bhattacharya, 2011, Bhattacharya and

Geotechnics in the 21st Century,

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uncertainties and other ...

The SLOPE/W analyses and results were well received by the owner's geotechnical consultant, and as a result, design and construction were approved to proceed. SLOPE/W is easy to use and saved me a lot of time while performing the analyses. I have been a continuous user since. - George L. Costa Costa

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Consulting Engineers

GEOSLOPE Home

Phil's background is in Geomorphology, Engineering Geology and Geotechnical Engineering. He completed his PhD at the University of Wollongong (NSW, Australia) in 1998 and a Masters in Applied Science at the University of New

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South Wales in 1992.

**Flentje, Phil N. -
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of the developments over the last three decades, related to understanding, modelling and assessment of the engineering performance of slopes.

Geotechnical Slope Analysis - CORE

A sensitivity analysis is undertaken to demonstrate the significance of

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structure persistence in the geotechnical assessment. Such analysis would provide more insight into designing highwall mining layouts and in predicting possible impending highwall failures, and indirectly facilitates reducing machine downtime for better management of ...

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A Framework for Geotechnical Hazard Analysis in Highwall ...

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