

Environmental effects, weathering and soil formation

958016

Scabed physiography and morphology and their impact on the installation and protection of man-made structures. G. E. Melegari, in: *Coastal ocean space utilization III. Proc. symposium, Genoa, 1993*, ed N. Della Croce & others. (E & FN Spon), 1995, pp 621-638.

Physical oceanographic processes as agents of sediment transport, sedimentary processes and potential geological hazards are first discussed. The survey and protection of pipelines are then covered, with particular attention being paid to sandbags, grout bags, jack-ups, gravel dumping, mattresses, saddles and anchors. (S.J.Stone)

958017

Correlation between stone weathering and environmental factors in marine atmosphere

A. Mporopoulou, F. Theoulakis & T. Chrysophakis, *Atmospheric Environment*, 29(8), 1995, pp 895-903.

The establishment of a method for a statistically reliable correlation between the particular parameters which compose the micro-environment and the resulting decay form is attempted. The case of an extended monument, like the medieval city of Rhodes, where various characteristic types of weathering can be distinguished in relevance with the particular laws governing the relation between environmental and micro-climatic conditions and materials, could act as a pilot. Statistical analysis and specially multivariate methods could provide a technique for predicting what type of weathering would be expected according to the micro-environmental conditions at various locations. Hence, the directions of a conservation plan could be ascribed and evaluated accordingly. (from Authors)

958018

Real time measurements of sandstone deterioration: a microcatchment study

D. P. Halsey, S. J. Dews, D. J. Mitchell & F. C. Harris, *Building & Environment*, 30(3), 1995, pp 411-417.

In order to gain a greater insight into the mechanisms responsible for the deterioration of sandstone buildings, chemical analysis of runoff water from sandstone and glass (control) surfaces has been carried out. Results indicate that the blocking of the stone's pores by atmospheric particulates, soluble salts and algae may be involved in this decay. Evidence is presented which indicates that pressures created by salts and trapped moisture may cause the detachment of surface layers of sandstone from buildings. Weakening by kaolinite formation is identified as a potential factor in sandstone weathering. (Authors)

958019

The determination of suction-controlled slope stability in humid temperate environments

S. M. Brooks & M. G. Anderson, *Geografiska Annaler, Series A*, 77A(1-2), 1995, pp 11-22.

Certain slope failures in tropical environments have been shown to be suction controlled where soils are highly weathered, deep and permeable. In this paper two models are employed to assess whether hillslopes in humid temperate environments may be suction controlled. The first model, the resistance envelope model, provides an initial indication of the general hydrological conditions under which failure occurs. The second model, a physically-based coupled slope hydrology-slope stability model allows closer inspection of the hydrological mechanisms which govern slope failure. The two models, when applied to real slope failures, indicate the

possibility that slopes may fail under unsaturated conditions, and that their stability is thus controlled by the minimum suction which may develop at the shear surface during high-magnitude storms. (Authors)

958020

Impact of vegetation on slope stability in a humid tropical environment: a modelling approach

A. J. C. Collison, M. G. Anderson & D. M. Lloyd, *Proceedings - ICE: Water, Maritime & Energy*, 112(2), 1995, pp 168-175.

Vegetation covers can provide a low cost, aesthetically acceptable solution to problems of erosion and slope instability, and are of greatest relevance in humid tropical areas. However, the impact of vegetation may be detrimental in some cases, depending on the slope size and soil properties. This paper describes a physically based distributed model which has been developed for assessing the impact of vegetation on slope stability. The model accounts for the dynamic mechanical and hydrological response of a vegetated slope to rain-storms. It has been applied to a range of slope conditions to develop guidelines on optimum vegetation cover type and configuration, and to estimate the risk and benefit of carrying out a range of bioengineering schemes. The scheme will be of use to engineers designing remedial bioengineering solutions to offset shallow, infiltration-induced landslides in the tropics. (Author)

958021

The long-term weathering of PFA and implications for groundwater pollution

S. Lee & D. A. Spears, *Quarterly Journal of Engineering Geology*, 28(Suppl), 1995, pp S1-S15.

Borehole samples of weathered PFA were taken from an ash disposal mound at a major British power station. The oldest ash studied was deposited in 1975. XRD and SEM investigation of weathered PFA showed no substantial changes in mineralogy, such as the formation of secondary clay minerals, as the result of weathering. However, element concentrations in porewater and PFA varied as a function of depth indicating: 1) reaction of PFA with infiltrating porewaters and attainment of equilibrium (Ca, SO₄, Ba, Sr), 2) reaction without attainment of equilibrium (Mg, Na, K, B, Mo) and 3) elements infiltrating into the PFA from the surface (Cl, NO₃). The depth trends were used to assess mobility and migration of elements in the PFA mound and thus to produce information on leachate evolution in older PFA disposal sites in which leachates could either enter surface waters or pass downwards into groundwater. (Authors)

958022

Isotope hydrology investigations in large refuse lysimeters

P. Maloszewski, H. Moser, W. Stichler & P. Trimborn, *Journal of Hydrology*, 167(1-4), 1995, pp 149-166.

With the aim of studying the hydraulic behaviour and isotopic effects in refuse dumps, measurements of the ¹⁸O and ²H content of rainwater infiltrating into large cylindrical refuse lysimeters were performed. The transit times of rainwater through the lysimeters (3-5 years) and the mean flow velocities deduced from them (0.4-1 m year⁻¹), correspond to values in the unsaturated zone of sandy aquifers. A special attempt was made to follow individual heavy rain events. It was found that up to 40% of those precipitation events drains off directly, i.e. within a few weeks. However, as it remains only a short time in the lysimeter, this water should not be greatly affected by the lysimeter filling. (from Authors)

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Jicheng Xie



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