Preliminary Quantitative Assessment of Boulder Falls in Hong Kong

Reeves, A., Chan, H.C. & Lam, K.C.

Abstract

Since 1994, the Geotechnical Engineering Office (GEO) of the Hong Kong Government has been assessing the feasibility of applying Quantitative Risk Assessment (QRA) to assess landslip hazards including boulder falls in Hong Kong. The purpose of these QRA projects is to provide input to the landslip risk management.

This paper describes the methodology developed for assessing the risks from boulder falls using classical risk assessment techniques. The methodology includes the determination of frequency of boulder falls, assessment of the consequence of boulder falls in terms of the potential fatalities caused and the estimation of the risk levels.