

A Method to Calculate Probability of Rainfall-related Slope Failures

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Railway operators have invested for disaster prevention of rainfall-related slope failures to secure the safety of train operations. It is essential to evaluate a disaster risk of slope considering the probability and expenses required for slope failures to execute the investment in disaster prevention effectively. We developed a method to calculate the probability of slope failures due to intense rainfalls to evaluate the disaster risk of slope applying the risk assessment method. In this paper, we describe the developed method, and some calculating examples.