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System Reliability Analysis of Slope Stability Using Generalized Subset Simulation

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Highlights

- Generalized Subset Simulation (GSS) is used to evaluate slope system reliability;
- Failure probabilities of multiple failure events are obtained by a single GSS run;
- Representative and key failure events are determined in a rational manner;
- Computational efficiency of slope reliability analysis is significantly improved;
- Contributions of key failure events to slope failure are quantitatively evaluated;

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