

Stability Inspection of Existing Retaining Walls

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A conventional inspection method to evaluate stability of railway retaining walls is visual inspection. This is because there is no quantitative inspection method proposed. Therefore, to develop the inspection method to evaluate its stability, a percussion test which is commonly applied to bridge substructures to check its stability, was applied to the leaning retaining walls. Then, to clarify the relationships between the stability and frequency characteristics, model test was conducted. Consequently, we herewith presented a newly developed stability inspection and evaluation methods, and successfully verified to be applicable to existing leaning retaining walls.