

**Experimental Examination with Elevated Structural Model Concerning  
Multiple Reflection of Noise Barrier in Noise Forecast of the Ordinary  
Railways**

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Noise barriers have been constructed to reduce the railway noise. However, as multiple reflections between noise barrier and car body occurs, we can't accurately estimate the effects of the multiple reflections reflection in predicting method of ordinary railway noise.

In this paper we investigate the effects of multiple reflections using a technique of scale model experiment. The experimental results show that noise level varies due to multiple reflections in accordance with the difference of the distance between noise barrier and car body. Then we think out that the railway noise prediction method in due consideration of the difference of the multiple reflections.