Test for Performance of 2nd Suspension of Vehicle in Large Vibration

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Investigations for railway safety against seismic motion can be carried out using a numerical simulation and an experiment on a vibration table. In case that the experimental result and the numerical analysis are not in agreement, one of the reason is considered that some parameters of springs and dampers are different between normal and large vibration. We have developed a new testing device for investigating performance of the 2nd suspension of railway vehicle when it is vibrating largely due to an earthquake. This paper presents a description of the testing device and some results of the experiment.